

# NSK Group

## Green Procurement Standard

### List of NSK Environmentally Harmful Substances (Ver. 6.5)



Revised on May 31, 2017

**NSK Ltd.**

# **1. Laws/Regulations and Industrial Guidelines and Customer standards** **Referenced in the List of NSK Environmentally Harmful Substances**

## **1 – 1 Laws/Regulations**

- 1) Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
  - Class I Specified Chemical Substances
  - Class II Specified Chemical Substances
  - Chemical Substances Subject to Monitoring
- 2) Industrial Safety and Health Act
  - Substances which are prohibited to be manufactured
- 3) Poisonous and Deleterious Substances Control Act
  - Specified poisons
- 4) Environmental Quality Standards for Groundwater Pollution
- 5) RoHS Directive (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment)  
(EU Directive No.2011/65/EU )
- 6) ELV Directive (End of Life Vehicles, Directive)  
(EU Directive No.2000/53/EC)
- 7) REACH Regulations Annex XVII Restricted substances
- 8) REACH Regulations Annex XIV Permitted substances(1st–5th candidates)
- 9) REACH Regulations SVHC (Substances of Very High Concern)  
(1st–16th candidates)  
(Registration, Evaluation, Authorization and Restriction of Chemicals)
- 10) ESIS (European chemical Substances Information System)  
PBT Fulfilling (P:Persistent, B:Bio–accumulative, T:Toxic)
- 11) POPs Convention (Persistent Organic Pollutant)  
(Annex A:Elimination, Annex B:Restriction, Annex C:Unintentional Production)
- 12) CLP Regulations Annex VI Table3.2 CMR((Categories 1, 2) Substances  
(C:Carcinogenic, M:Mutagenic, R:Toxic for Reproduction)
- 13) Prohibition of Certain Toxic Substances Regulations, 2012(Canada)
- 14) Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)

## **1 – 2 Industrial Guidelines**

- 1) 2017GADSL(Global Automotive Declarable Substance List)  
(Revised on February 1, 2017)
- 2) IEC62474 D13.00 (IEC: International Electrotechnical Commission)  
(Revised on January 12, 2017)

## **1 – 3 Customer standards**

Standards of the customer who requires the green procurement.

## 2. Classes and Standards for Control

### 2-1 Classes and Standards for Control

In order to appropriately control environmentally harmful substances in parts/materials, sub-materials, auxiliary materials for production, and packing/packaging materials, NSK environmentally harmful substances are classified into NSK prohibited substances, NSK reduced use substances, and NSK observation substances.

- 1) **NSK Prohibited Substances** Substances which must not be contained in or adhere to parts/materials, sub-materials, auxiliary materials for production and packing/packaging materials in accordance with the Classes and Standards for Product Groups specified in Section 2-2.
- 2) **NSK Reduced Substances** Substances which must not be contained in or adhere to newly selected parts/materials, sub-materials, auxiliary materials for production and packing/packaging materials in accordance with the Classes and Standards for Product Groups specified in Section 2-2.  
  
If these substances are contained in or adhere to existing parts/materials, sub-materials, auxiliary materials for production and packing/packaging materials, selection and evaluation of replacement products must have been completed.  
  
[\* "Newly selected" means items which are subject to Section 3 consisting of chemical substances which have never been used by the NSK Group in the past.]
- 3) **NSK Observation Substances** Substances whose usage locations, applications and content must be known in accordance with the Classes and Standards for Product Groups specified in Section 2-2.

### 2-2 Management classification and management criteria according to product group

The management classification for each NSK product group was decided according to legal regulations, industry guidelines and customer demand.

Product Group	NSK Prohibited Substances	NSK Reduced Substances	NSK Observation Substances
Ball bearing Direct drive products - Ball screw - NSK linear guide - Monocarrier (machine parts) NSK-Warner products - Friction plate - One-way clutch	(2539 substances)	(1585 substances)	(1824 substances)
Autoparts - Steering - Ball screw for actuators	P and D/P of GADSL are applied.		D of GADSL is applied.
Mechatronics equipment (Megatorque motor, XY table, etc.) Direct drive products - Monocarrier (electrical and electronic components) Spindle	- Cadmium and its compounds (100 ppm and above) - Lead and its compounds (1000 ppm and above) - Mercury and its compounds (1000 ppm and above) - Hexavalent chromium salts (1000 ppm and above) - Polybrominated biphenyls (1000 ppm and above) - Polybrominated diphenyl ether (1000 ppm and above) (Excluding the respective substances that comply with the RoHS Directive)	—	IEC62474 However, excluding RoHS 6 substances

### 3. Application Range and Examples

Use	Description	Product Example
Parts/Materials	Parts/materials and finished/semi-finished products used in NSK products	Resins (parts/materials), rubbers (parts/materials), greases, oils, solders, finishings (platings etc.), steel stock, nonmetal materials, machined parts, screws, sensors, motors, controllers, electronic components, and others.
Sub-Materials	Substances used in or that come with NSK products which are shipped	Anticorrosives, adhesives, paints, tapes, labels, instructions for use, inks, markers, and others.
Auxiliary Materials for Production	Oils, grinding stones, and cutting tools used in NSK production processes	Heat treating oils, working oils (forging, cutting, grinding), surface treatment agents, detergents, solvents (thinners, etc.), interim anticorrosives, cutting tools, grinding stones, and others.
Packing/Packaging Materials	Materials used for shipping/transporting NSK products	Plastic boxes, trays, plastic bags, plastic sheets, stretch films, cushions, pallets, crates, cardboards, tapes, banding bands, labels, printing inks, and others.

### 4. Definition of Terminology

- 1) Environmentally harmful substance  
A substance which has, or may have, a detrimental effect on people's health or environmental conservation
- 2) Intentionally contained:  
A case where a substance is continually used or added intentionally in order to impart specific characteristics, appearance or quality.
- 3) Unintentionally contained:  
A case where a substance is contained although not added intentionally.
  - When it is contained in a material or raw material, etc., and cannot be removed in refining processes as an industrial material.
  - When it is a side product which cannot be removed in the manufacturing process.
- 4) Permitted concentration (threshold):  
Concentration below which substance is not to be prohibited, restricted or controlled.
- 5) CAS-No (Chemical Abstracts Service Number):  
A number assigned to a chemical substance by the American Chemical Society (ACS: American Chemical Society). It has a maximum of 10 digits, a unique number being assigned to every chemical.
- 6) GADSL (Global Automotive Declarable Substance List)  
A list of banned substances or substances to be notified drawn up by the motor vehicle industry.  
If a threshold is exceeded, the following classification is applied:
  - P : Prohibited for any use
  - D/P : Prohibited for certain uses, while for other uses, notification must be given.
  - D : Whenever used, notification must be given.
- 7) IEC62474 (Issued on March 22, 2012)  
The new international standards IEC62474 stipulates international standards regarding data exchange and requirements in information declaration of contained chemical substances for future electrical and electronic industry. Take over JIG-101.
  - Mandatory : Reporting is mandatory.
  - Optional : Reporting is optional.

5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~18th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Acetaldehyde	アセトアルデヒド	75-07-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Acetamide, N-methyl-	アセトアミド、N-メチル	79-16-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D												●				●	
Acetonitrile	アセトニトリル	75-05-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Acrylamide	アクリルアミド	79-06-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●		●				●	
Acrylonitrile	アクリロニトリル	107-13-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																●	
Amines, coco alkyl		61788-46-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Amines, which can form carcinogenic Nitrosamines, selected	発癌性ニトロソアミンを形成し得るアミン類、抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D																	
N,N-Diethanolamine (Ethanol, 2,2'-iminobis-)	ジエタノールアミン	111-42-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N,N-Diethylamine (Ethanamine, N-ethyl-)	ジエチルアミン	109-89-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N,N-Di-n-propylamine (2-Propanamine, N-(1-methylethyl)-)	ジイソプロピルアミン	108-18-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N,N-Dimethylamine (Methanamine, N-methyl-)	ジメチルアミン	124-40-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N,N-Di-n-propylamine (1-Propanamine, N-propyl-)	ジ-n-プロピルアミン	142-84-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N,N-Di-n-butylamine (1-Butanamine, N-butyl-)	ジ-n-ブチルアミン	111-92-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N,N-Ethylphenylamine (Benzenamine, N-ethyl-)	N-エチルアニリン	103-69-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N,N-Methylethylamine (Ethanamine, N-methyl-)	N-メチルエチルアミン	624-78-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Methyl-N-phenylamine (Benzenamine, N-methyl-)	N-メチルアニリン	100-61-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Morpholine	モルホリン	110-91-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Piperidine	ピペリジン	110-89-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Pyrrolidine	ピロリジン	123-75-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
4-Aminobiphenyl and its salts, all members	4-アミノビフェニルおよびその塩類、すべて			All applications and products	Relative to the weight of component parts and materials 100	P																	
4-Aminobiphenyl	4-アミノビフェニル	92-67-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 30	P	Mandatory						●			●						●	
p-aminobiphenyl hydrochloride	p-アミノビフェニルクロライド	2113-61-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	P							●										
Ammonium perchlorate	過塩素酸アンモニウム	7790-98-9	Observation	All applications and products	Relative to the weight of component parts and materials Perchloric acid concentration 0.06	D	Mandatory																
Aniline and its salts, all members	アニリンおよびその塩、すべて			All applications and products	Relative to the weight of component parts and materials 1000	D																	
Aniline	アニリン	62-53-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Aniline chloride	アニリン塩酸塩	142-04-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Anilinetrifluoroboron	アニリントリフルオロカーボン	660-53-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Benzenamine sulfate (2:1)	アニリン硫酸塩	542-16-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Salts from 2,2'-Dichloro-4,4'-methyldianiline		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
3,5-Dichloro-4-(1,1,2,2-Tetrafluoroethoxy)Aniline	3,5-ジクロロ-4-(1,1,2,2-テトラフルオロエトキシ)アニリン	104147-32-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Salts from 4,4'-Carbonimidoylbis[N,N-dimethylanilin]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
9,10-Anthracenedione, 1-[(5,7-dichloro-1,9-dihydro-2-methyl-9-oxopyrazolo[5,1-b]quinazolin-3-yl)azo]- (Pigment Red 251)	3-(1-アントラキノニルアゾ)-5,7-ジクロロ-2-メチル-1H-ピラゾロ[3,2-b]キノザリン-9-オン	74336-60-0	Observation	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D																	
Antimonytrioxide (Diantimonytrioxide)	三酸化アンチモン(三酸化ニアンチモン)	1309-64-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	●
Aromatic amines, selected	芳香族アミン、抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Phenyl-2-naphthylamine	N-フェニル-2-ナフチルアミン	135-88-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Diethylmethylbenzenediamine	ジエチルトルエンジアミン	68479-98-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Bis(methylthio)toluenediamine	ビス(メチルチオ)トルエンジアミン	106264-79-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Diphenylamine	ジフェニルアミン	122-39-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
1,3-benzenediamine, 4,6-diethyl-2-methyl-	2,6-ジアミノ-3,5-ジエチルトルエン	2095-01-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
1,3-benzenediamine, 2,4-diethyl-6-methyl-	2,4-ジアミノ-3,5-ジエチルトルエン	2095-02-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
O-toluidine, 4-chloro-, hydrochloride	4-クロロ-ο-トルイジン塩酸塩	3165-93-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
2,4-Diaminoanisole sulphate (1,3-Benzenediamine, 4-methoxy-, sulfate (1:1))	2,4-ジアミノアニソール硫酸	39156-41-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																●		
Benzenamine, 2-methyl-5-nitro-, monohydrochloride	4,4'-(4-イミノシクロヘキサ-2,5-ジエニデンメチル)ジアニン塩酸塩	51085-52-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																●	●	
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	ベシックブルー26	2580-56-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Methanaminium, n-[4-bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-n-methyl-, chloride: C.I. Basic Violet 3	[4-[ビス(4-ジメチルアミノフェニル)メチレン]-2,5-シクロヘキサジエン-1-イリデン]ジメチルアンモニウムクロリド	548-62-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D											●	●				●		
Benzenamine, 4-[[4-aminophenyl](4-imino-2,5-cyclohexadien-1-ylidene)methyl]-, monohydrochloride	ベシックレッド9	569-61-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D											●					●		
Arsenic and its compounds, all members	砒素およびその塩、抜粋			All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P																		
Cadmium arsenide (Cd3As2)		12006-15-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P		●	●								●							
Chromium arsenide (Cr2As)	ヒ化クロム	12254-85-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D		●	●								●							
Lead arsenate	ヒ酸鉛	3687-31-8	Prohibited	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P		●	●								●							
Lead arsenate	ヒ酸鉛	7784-40-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P		●	●								●					●		
Lead arsenate (Pb3(AsO4)2)	砒酸鉛(ii)	10102-48-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P		●	●								●							
Lead arsenate, unspecified	ヒ酸鉛(混合)	7645-25-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P		●	●								●							
Lead arsenite	亜ヒ酸鉛	10031-13-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P		●	●								●							
Mercuric arsenate	ヒ酸第二水銀(HgAsHO4)	7784-37-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P		●	●								●							
2,6-Dimethyl-4-(1-naphthyl)pyrylium hexafluoroarsenate	2,6-ジメチル-4-(1-ナフタレニル)ピリリウム、ヘキサフルオロアルセナート	84282-36-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
2,6-Dimethyl-4-phenylpyrylium hexafluoroarsenate	2,6-ジメチル-4-フェニルピリリウム、ヘキサフルオロアルセナート	84304-15-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
4-Cyclohexyl-2,6-dimethylpyrylium hexafluoroarsenate	4-シクロヘキシル-2,6-ジメチルピリリウム、ヘキサフルオロアルセナート	84304-16-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
6,6'-Dihydroxy-3,3'-diarsene-1,2-diylidanium dichloride	6,6'-ジヒドロキシ-3,3'-ジヒ素-1,2-ジイルア ニリニウムジクロリド	139-93-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
Aluminum arsenide (AlAs)	ヒ化アルミニウム	22831-42-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
Aluminum gallium arsenide ((Al,Ga)As)	ヒ化アルミニウム・ガリウム	37382-15-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
Ammonium arsenate	ヒ酸アンモニウム	7784-44-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
Ammonium-magnesium-arsenat	アンモニウム-マグネシウム-亜ヒ酸混合物	14644-70-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
Antimony arsenate	ヒ酸アンチモン	28980-47-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
Antimony arsenic oxide	酸化ヒ素アンチモン	64475-90-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
Antimony arsenide (Sb3As)	ヒ化アンチモン (Sb3As)	12255-36-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							
Arsenargentite (Ag3As)	ヒ化銀 (Ag3As)	12417-99-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Arsenate(1-), hexafluoro-, hydrogen	ヘキサフルオロヒ酸水素	17068-85-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenate(1-), hexafluoro-, lithium	六フッ化ヒ酸リチウム	29935-35-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenate(1-), hexafluoro-, potassium	ヘキサフルオロヒ(V)酸カリウム	17029-22-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenous acid, lithium salt	亜ヒ酸リチウム塩	72845-34-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid	ヒ酸	1327-52-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D																	
Arsenic acid	ヒ酸	7778-39-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D											●	●					
Arsenic acid (H3AsO4), ammonium copper(2+) salt (1:1:1)	ヒ酸 (H3AsO4)アンモニウム銅 (1:1:1)	32680-29-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), barium salt (2:3)	ヒ酸 (H3AsO4)バリウム (2:3)	13477-04-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), bismuth salt (1:1)	ヒ酸 (H3AsO4)ビスマス塩 (1:1)	13702-38-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), cobalt(2+) salt (2:3)	ヒ酸コバルト(II)	24719-19-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), copper salt	ヒ酸銅(II)(AsH3O4.xCu)	10103-61-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), copper(2+) salt (2:3)	ヒ酸銅(II)(Cu3(AsO4)2)	7778-41-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), dipotassium salt	ヒ酸(H3AsO4)ニカリウム塩	21093-83-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), magnesium salt, manganese-doped	ヒ酸マグネシウム塩 マンガンドーブ塗料	102110-21-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), monoammonium salt	ヒ酸二水素アンモニウム	13462-93-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), strontium salt (2:3)	ヒ酸ストロンチウム塩 (2:3)	13464-68-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), triethylamine salt	ヒ酸リチウム	13478-14-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid (H3AsO4), trisilver(1+) salt	ヒ酸銀	13510-44-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic acid, lead (4+) salt	ヒ酸鉛 (4+)塩	53404-12-9	Prohibited	Note 11) To be prohibited: Applications subject to the ELV and RoHS Directives (for exemptions, refer to Annex II) Note 12) To be reduced: Applications not subject to the ELV and RoHS Directives	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	D/P		●	●						●								
Arsenic acid, trisodium salt	ヒ酸ナトリウム	13464-38-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic bromide	ヒ酸ブロミド	64973-06-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic bromide	ヒ酸ブロミド	7784-33-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic chloride	ヒ化塩素	37226-49-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsino thioxo		12044-79-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic sulfide (AsS2)	二硫化ヒ素	56320-22-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Arsenic pentoxide	五酸化二ヒ素	1303-28-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P	Mandatory									●	●				●		
Arsenic selenide (As2Se3)	三セレン化二ヒ素	1303-36-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Arsenic sulfide	五硫化ヒ素	12612-21-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenic sulfide (As2S4)	四硫化二ヒ素	12344-68-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenic telluride (As2Te3)	三テルル化二ヒ素	12044-54-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenic trichloride	三塩化ヒ素	60646-36-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenic trioxide	三酸化二ヒ素	1327-53-3	Reduced Observation	To be prohibited: All applications and products for the European market To be controlled: All applications and products except for the European market	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P	Mandatory										●	●				●		
Arsenic trisulfide	三硫化二ヒ素	1303-33-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenic, elemental	ヒ素	7440-38-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenopyrite, cobaltoan		12414-94-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenous acid, trisodium salt	亜ヒ酸三ナトリウム	13464-37-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenous trichloride		7784-34-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenous triiodide	三ヨウ化ヒ素	7784-45-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Barium arsenide (Ba3As2)	ヒ化バリウム	12255-50-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Benzenediazonium, 3-methyl-4-(1-pyridinyl), hexafluoroarsenate(1-)	3-メチル-4-(1-ピロジニル)ベンゼンジアゾニウム、ヘキサフルオロアルセナート	27569-09-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Benzenediazonium, 4-(diethylamino)-2-ethoxy-, hexafluoroarsenate(1-)	4-(ジエチルアミノ)-2-エトキシベンゼンジアゾニウム、ヘキサフルオロアルセナート(1-)	63217-33-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Benzenediazonium, 4-(ethylamino)-2-methyl-, hexafluoroarsenate(1-)	4-(エチルアミノ)-2-メチルベンゼンジアゾニウム、ヘキサフルオロアルセナート(1-)	63217-32-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Benzenesulfonic acid, 4-arsenoso-	4-アルセノベンゼンスルホン酸	71130-51-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Benzenesulfonic acid, 4-arsenoso-, sodium salt	4-アルセノベンゼンスルホン酸ナトリウム	71130-50-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Boron(1+), bis(2,4-pentanedionato-O,O'), (T-4), hexafluoroarsenate(1-)	ビス(2,4-ペンタジオネート-O,O')ホウ素(1+)六フッ化ヒ酸(1-)	68892-01-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Calcium arsenate	ヒ酸カルシウム	10103-62-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Calcium arsenate	ヒ酸カルシウム	7778-44-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●		●						
Calcium arsenide (Ca3As2)	ヒ化カルシウム (Ca3As2)	12255-53-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Calcium arsenite	亜ヒ酸カルシウム	52740-16-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Calcium arsenite (2:1)	亜ヒ酸カルシウム(CaAsO4)	15194-98-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Calcium arsenite (2:3)	亜ヒ酸カルシウム(Ca3(AsO3)2)	27152-57-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Cobalt arsenide (CoAs)	ヒ化コバルト	27016-73-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Cobalt arsenide (CoAs2)	ヒ化コバルト (CoAs2)	12044-42-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Cobalt arsenide (CoAs3)	ヒ化コバルト (CoAs3)	12256-04-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Copper acetoarsenite	アセト亜ヒ酸銅	12002-03-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Copper arsenate	ヒ酸銅(II)(混合)	29871-13-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Copper arsenate hydroxide (Cu2(AsO4)(OH))	ヒ酸水酸化銅(Cu2(AsO4)(OH))	12774-48-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Copper arsenide (Cu3As)	ヒ化銅	12005-75-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Copper arsenite	亜ヒ酸銅	10290-12-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Copper arsenite		33382-64-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D																		
Copper diarsenite	ビス(オキシアルシノ)オキシ銅(II)	16509-22-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Diarsenic acid	ピロヒ酸	13453-15-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Diphenyldiarsenic acid	1,2-ジフェニル-1,2-ジアルサエテン	4519-32-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Disodium hydrogen arsenate (Arsenic acid (H3AsO4), disodium salt, heptahydrate)	ヒ酸水素二ナトリウム七水和物	10048-95-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Disodium hydrogen arsenate (Arsenic acid (H3AsO4), sodium salt (1:2))	ヒ酸水素二ナトリウム	7778-43-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Dysprosium arsenide (DyAs)	ヒ化ジスプロシウム	12005-81-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Erbium arsenide (ErAs)	ヒ化エルビウム	12254-88-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Europium arsenide (EuAs)	ヒ化ユーロピウム(EuAs)	32775-46-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Ferric arsenate	ヒ酸鉄(III)	10102-49-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Ferric arsenite	亜ヒ酸第二鉄五水和物	63989-89-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Ferrous arsenate	砒酸第一鉄	10102-50-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Gadolinium arsenide (GdAs)	ヒ化ガドリニウム	12005-89-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Gallium arsenide	一ヒ化ガリウム	1303-00-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●						●		
Gallium arsenide phosphide		106097-61-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Digallium arsenide phosphide	ガリウムヒ素リン(2:1:1)	12044-20-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Gallium zinc triarsenide	三ヒ化ガリウム亜鉛	98106-56-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Germanium arsenide (GeAs)	ヒ化ゲルマニウム (GeAs)	12271-72-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Holmium arsenide (HoAs)	ヒ化ホルミウム	12005-92-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Indium arsenide (InAs)	一ヒ化インジウム	1303-11-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Iodonium, diphenyl-, hexafluoroarsenate(1-)	ジフェニルヘキサフルオロヒ酸(1-)ヨウ素	62613-15-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Iron arsenide (Fe2As)	ヒ化鉄(1:2)	12005-88-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Iron arsenide (FeAs)	一ヒ化鉄	12044-16-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Iron arsenide (FeAs2)	二ヒ化鉄	12006-21-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Lanthanum arsenide (LaAs)	ヒ化ランタン	12255-04-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Lithium arsenide (Li3As)	ヒ化リチウム	12044-22-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Lutetium arsenide (LuAs)	ヒ化ルテニウム	12005-94-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Magnesium arsenate	ヒ酸マグネシウム	10103-50-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Magnesium arsenide (Mg3As2)	ヒ化マグネシウム	12044-49-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Manganese arsenide (Mn2As)	ヒ化マンガン (Mn2As)	12005-96-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Manganese arsenide (MnAs)	一ヒ化マンガン	12005-95-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Manganese hydrogenarsenate	酸性ヒ酸マンガン	7784-38-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Metaarsenic acid	メタヒ酸	10102-53-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Methylum, triphenyl-, hexafluoroarsenate(1-)	トリフェニルメチリウム-ヘキサフルオロアルセナート(1-)	437-15-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
N-(p-Arsenosophenyl)-1,3,5-triazine-2,4,6-triamine	N-(p-アルセノフェニル)-1,3,5-トリアジン-2,4,6-トリアミン	21840-08-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Neodymium arsenide (NdAs)	ヒ化ネオジム	12255-09-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Nickel arsenide (NiAs)	一ヒ化ニッケル	27016-75-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●						●	
Nickel diarsenide	ヒ化ニッケル;ニヒ化ニッケル	12068-61-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●						●	
Niobium arsenide (NbAs)	ヒ化ニオブ	12255-08-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Platinum arsenide (PtAs2)	ヒ化プラチナ	12044-52-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Potassium arsenate	ヒ酸カリウム	7784-41-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Potassium arsenide (K3As)	ヒ化カリウム	12044-21-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Potassium arsenite	亜ヒ酸カリウム(AsH3O3 xK)	10124-50-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Potassium arsenite	亜ヒ酸カリウム(AsH3O3 xK)	13464-35-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Praseodymium arsenide (PrAs)	ヒ化プラセオジム	12044-28-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Rammelsbergite (NiAs2)	ヒ化ニッケル (NiAs2)	1303-22-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Samarium arsenide (SmAs)	ヒ化サマリウム	12255-39-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Silicic acid (H4SiO4), tetraethyl ester, polymer with arsenic oxide(As2O3)	酸化ヒ素(As2O3)によるポリマーのケイ酸(H4SiO4)テトラエチルエステル	68957-75-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Silicon(1+), tris(2,4-pentanedionato-O,O'), (OC-6-11)-, hexafluoroarsenate(1-)	トリス(2,4-ペンタンジオナート-O,O')ケイ素(1-(OC-6-11)-,ヘキサフルオロヒ酸(1-))	67251-38-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Silver arsenide (Ag2As)	ヒ化銀 (Ag2As)	70333-07-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Sodium arsenate	ヒ酸二水素ナトリウム	7631-89-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Sodium arsenide (Na3As)	ヒ化ナトリウム	12044-25-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Sodium arsenite	メタ亜ヒ酸ナトリウム	7784-46-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Sodium metaarsenate	アルセネン酸ナトリウム	15120-17-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Strontium arsenide (Sr3As2)	ストロンチウムアルセニド (Sr3As2)	39297-24-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Strontium arsenite	亜ヒ酸ストロンチウム	15195-06-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Strontium arsenite	亜ヒ酸ストロンチウム	91724-16-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							
Strychnidin-10-one, arsenite (1:1)	ストリキニン-10-オン,亜ヒ酸塩(1:1)	100258-44-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Strychnine arsenate	ストリキニンヒ酸	10476-82-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Sulfonium, triphenyl-, hexafluoroarsenate(1-)	トリフェニルスルホニウムヘキサフルオロアルセナイト	57900-42-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Terbium arsenide (TbAs)	ヒ化テルビウム	12006-08-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Thallium arsenide (TIAs)	ヒ化タリウム	12006-09-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Thallium triarsenide	三ヒ化タリウム	84057-85-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Thulium arsenide (TmAs)	ヒ化ツリウム	12006-10-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Triammonium arsenate	ヒ酸トリアンモニウム	24719-13-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Triethyl arsenate	ヒ酸トリエチル	15606-95-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●		●				●		
Triethyl arsenite	トリエトキシ砒素	3141-12-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Trimanganese arsenide	ヒ化三マンガ	61219-26-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Trinickel bis(arsenate)	ヒ酸ニッケル	13477-70-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●						●		
Tris[(8a)-6'-methoxycinchonan-9(R)-o] arsenite	トリス((8a)-6'-メトキシシンコナン-9(R)-オール) 亜ヒ酸塩	94138-87-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Tris[(8a,9R)-6'-methoxycinchonan-9-o] bis(arsenate)	トリス((8a,9R)-6'-メトキシシンコナン-9-オール) ビス(亜ヒ酸塩)	549-59-7	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Vanadium(4+) diarsenate (1:1)	二ヒ酸バナジウム(IV)(1:1)	99035-51-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Ytterbium arsenide (YbAs)	ヒ化イッテルビウム	12006-12-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Yttrium arsenide (YAs)	ヒ化イットリウム	12255-48-0	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Zinc arsenate oxide (Zn5(AsO3)4O3), tetrahydrate	ヒ酸亜鉛	1303-39-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsenic acid (H3AsO4), zinc salt (2:3)	ヒ酸亜鉛	13464-44-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Zinc arsenide (Zn3As2)	二ヒ化三亜鉛	12006-40-5	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Zinc arsenide (ZnAs2)	2砒化1亜鉛	12044-55-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Zinc arsenite	亜ヒ酸亜鉛	10326-24-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Zirconium arsenide (ZrAs)	ヒ化ジルコニウム	60909-47-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsorous acid		13464-58-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Arsin	アルシン	7784-42-1	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
Diphenoxarsin-10-yloxid	ビス(10H-フェノキサリシン-10-イル)エーテル	58-36-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D/P																		
Trisilverarsenite	亜ヒ酸銀	7784-08-9	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500	D										●								
	フッ化砒素(Ⅲ)	7784-35-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500											●								
	フッ化砒素(Ⅴ)	7784-36-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500											●								
	五塩化砒素	22441-45-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500											●								
	四砒化四砒素	12279-90-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500											●								



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	硫化第一磁素	1303-32-8	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500											●								
	ヒ酸銅	16102-92-4	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500												●							
	ヒ酸クロム酸化銅 (CCA)	37337-13-6	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500												●							
Alkyl-arsenic compounds not specified this list	アルキルヒ素化合物のうち、本リスト上で特定されていない物質	—	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500												●							
Asbestos fibers, all members	繊維状アスベスト、すべて			All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P																		
Asbestos, actinolite	石綿(アクチノライト)	77536-66-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory						●				●					●		
Asbestos, amosite	石綿(アモサイト)	12172-73-5	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory						●				●					●		
Asbestos, anthophyllite	石綿(アンソフイライト)	77536-67-5	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory						●				●					●		
Asbestos, chrysotile	石綿(クリソタイル)	12001-29-5	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory						●				●					●		
Asbestos, crocidolite	石綿(クロシドライト)	12001-28-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory						●				●					●		
Asbestos, Tremolite	石綿(トレモライト)	77536-68-6	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory						●				●					●		
Asbestos minerals, all members	鉱物由来アスベスト、すべて			All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D/P																		
Asbestos	アスベスト	1332-21-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D	Mandatory						●											
Actinolite	アクチノライト	13768-00-8	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D																		
Tremolite	トレモライト(ファイバー/アスベスト)	14567-73-8	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D																		
Anthophyllite	アンソフイライト	17068-78-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D																		
Anthophyllite		12172-67-7	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D																		
Chrysotile	蛇紋石石綿 (クリソタイル)	132207-32-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P							●				●					●		
Crocidolite		132207-33-1	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D																		
Azodyes that can form carcinogenic amines, selected	発癌性のアミンから形成されたアゾ染料、抜粋			Note 1) To be prohibited: Substances in contact with the human body continuously for a long period of time Note 2) To be reduced: Substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Black 29		12217-14-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Black 94, C.I.30336		6358-80-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Black 131		12219-01-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Black 132		12219-02-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Black 209		72827-68-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Brown 415		97199-27-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Orange 45, C.I.22195		2429-80-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Red 4, C.I.14710		5858-39-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Red 5, C.I.14905		5858-63-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Red 24, C.I.16140		5858-30-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Red 35, C.I.18065		6441-93-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																		
C.I. Acid Red 85, C.I.22245	C.I. アンドレッド 85	3567-65-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																		

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
C.I. Acid Red 104, C.I.26420		8006-06-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 114, C.I.23635		6459-94-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 115, C.I.27200		8005-61-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 116, C.I.26660		6245-62-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 119:1		90880-75-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 128, C.I.24125		6548-30-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 148, C.I.26665		6300-53-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 150, C.I.27190		6226-78-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 158, C.I.20530		8004-55-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 167		61901-41-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 264, C.I.18133		6505-96-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Red 265, C.I.18129		6358-43-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Acid Violet 12, C.I.18075		6625-46-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Basic Brown 4, C.I.21010		5421-66-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Basic Red 42		12221-66-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Basic Red 76, C.I.12245		68391-30-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Basic Red 111		118658-98-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Basic Yellow 82		12227-67-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Basic Yellow 103		54060-92-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Black 4, C.I.30245	C.I. ダイレクトブラック 4	2429-83-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Black 29, C.I.22580		3626-23-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Black 38, C.I.30235	C.I. ダイレクトブラック38	1937-37-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P	Mandatory											●				●	
C.I. Direct Black 154		37372-50-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 1, C.I.24410		2610-05-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 2, C.I.22590	C.I. ダイレクトブルー 2	2429-73-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Blue 3, C.I.23705		2429-72-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 6, C.I.22610	C.I. ダイレクトブルー6	2602-46-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																●	
C.I. Direct Blue 8, C.I.24140		2429-71-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 9, C.I.24155		6428-98-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 10, C.I.24340		4188-19-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 14, C.I.23850	C.I.ダイレクトブルー14	72-57-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Blue 15, C.I.24400		2429-74-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 21, C.I.23710		6420-09-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 22, C.I.24280		2586-57-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 25, C.I.23790		2150-54-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 35, C.I.24145		6473-33-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 151, C.I.24175		110735-25-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 160		12222-02-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
C.I. Direct Blue 173		12235-72-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 192		71838-51-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 215, C.I.24415		6771-80-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Blue 295, C.I.23820		6420-22-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 1, C.I.30045	C.I. ダイレクトブラウン 1	3811-71-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Brown 1:2, C.I.30110		2586-58-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 2, C.I.22311	C.I. ダイレクトブラウン 2	2429-82-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Brown 6, C.I.30140	C.I. ダイレクトブラウン 6	2893-80-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Brown 25, C.I.36030		33363-87-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 27, C.I.31725		6360-29-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 31, C.I.35660	C.I. ダイレクトブラウン 31	2429-81-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Brown 33, C.I.35520		1324-87-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 51, C.I.31710		4623-91-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 59, C.I.22345	C.I. ダイレクトブラウン 59	3476-90-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Brown 74, C.I.36300	C.I. ダイレクトブラウン 74	8014-91-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Brown 79, C.I.30050		6483-77-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 95, C.I.30145	C.I. ダイレクトブラウン95	16071-86-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																●	
C.I. Direct Brown 101, C.I.31740		3626-29-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 154, C.I.30120	C.I. ダイレクトブラウン 154	6360-54-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Brown 222, C.I.30368		64743-15-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Brown 223		76930-14-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Green 1, C.I.30280	C.I. ダイレクトグリーン 1	3626-28-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Green 6, C.I.30295	C.I. ダイレクトグリーン 6	4335-09-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Green 8, C.I.30315	C.I. ダイレクトグリーン 8	5422-17-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Green 8:1		76012-70-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Green 85, C.I.30387		72390-60-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Orange 1, C.I.22370	ダイレクトオレンジ 1	54579-28-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Orange 6		6637-88-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Orange 7, C.I.23380		2868-76-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Orange 8, C.I.22130	C.I. ダイレクトオレンジ 8	2429-79-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Orange 10, C.I.23370		6405-94-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Orange 108, C.I.29173		6358-79-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 1, C.I.22310	C.I. ダイレクトレッド 1	2429-84-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Red 2, C.I.23500		992-59-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 7, C.I.24100		2868-75-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 10, C.I.22145		2429-70-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 13, C.I.22155		1937-35-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 17, C.I.22150		2769-07-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
C.I. Direct Red 21, C.I.23560		6406-01-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 22, C.I.23565		6448-80-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 24, C.I.29185	クロロフルオロプロパン	6420-44-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 26, C.I.29190		3687-80-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 28, C.I.22120	C.I. ダイレクトレッド 28	573-58-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P	Mandatory											●				●	
C.I. Direct Red 37, C.I.22240	C.I. ダイレクトレッド 37	3530-19-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Red 39, C.I.23630		6358-29-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 44, C.I.22500		2302-97-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 46, C.I.23050		6548-29-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 62, C.I.29175		6420-43-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 67, C.I.23505		6598-56-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Red 72, C.I.29200		8005-64-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Violet 1, C.I.22570		2586-60-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Violet 4, C.I.22555		6472-95-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Violet 12, C.I.22550		2429-75-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Violet 13, C.I.2480		13478-92-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Violet 21, C.I.23520		6470-45-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Violet 22, C.I.22480	C.I. ダイレクトバイオレット 22	6426-67-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P																	
C.I. Direct Yellow 1, C.I.22250		6472-91-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Yellow 24, C.I.22010		6486-29-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Direct Yellow 48, C.I.23660		6459-97-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Disperse Orange 60		12270-44-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Disperse Orange 149		151126-94-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Disperse Red 151, C.I.26130		61968-47-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Disperse Red 221		64426-35-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Disperse Yellow 7, C.I.26090		6300-37-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Disperse Yellow 23, C.I.26070		6250-23-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Disperse Yellow 56		54077-16-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Disperse Yellow 218		83929-90-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Mordant Yellow 16		8003-87-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Red 1, C.I.12150		1229-55-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Red 19, C.I.26050		6368-72-5	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Red 23, C.I.26100		85-86-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Red 24, C.I.26105		85-83-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Red 26, C.I.26120		4477-79-6	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Red 68		61813-90-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Red 69, C.I.27290		5413-75-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Red 164		71819-51-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
C.I. Solvent Red 215		85203-90-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
C.I. Solvent Yellow 72		4845-07-2	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	D/P																	
Trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromate(1-)		118685-33-9	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30	P		●	●							●							
Barium compounds (organic or water soluble), selected	バリウム化合物 (有機化合物あるいは水溶性化合物)、抜粋			All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium	バリウム	7440-39-3	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium 2-(2-hydroxy-3,6-disulphonato-1-naphthyl)azo benzoate (3:2)	ビグメントレッド60:1	15782-06-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium 4-(5-chloro-4-methyl-2-sulphonatophenyl)azo -3-hydroxy-2-naphthoate	ビグメントレッド48:1	7585-41-3	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium 4-(1,1-dimethylethyl)benzoate	バラターシャリプテル安息香バリウム	10196-68-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium bis 5-chloro-4-ethyl-2-(2-hydroxy-1-naphthyl)azo benzenesulph...	バリウムビス 5-クロロ-4-エチル-2-(2-ヒドロキシ-1-ナフタレニル)アゾベンゼンスルホン酸...	67801-01-8	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium bis(2-ethylhexanoate)	バリウムビス(2-エチルヘキサン酸)	2457-01-4	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium bis(dinonylnaphthalenesulphonate)	バリウムビス(ジノニルナフタレンスルホン酸)	25619-56-1	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium bis(nonylphenolate)	アルキル(C=4~12)フェノール塩 (Ba,Ca,Cd,C)	28987-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium distearate	ステアリン酸バリウム	6865-35-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium oxide, obtained by calcining witherite	酸化バリウム	1304-28-5	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium(2+) hydrogen 2-(2-hydroxy-3,6-disulphonato-1-naphthyl)azo benzoate	2-((2-ヒドロキシ-3,6-ジスルホ-1-ナフタレニル)アゾ)安息香酸2バリウム	1325-16-2	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-chlorate	塩素酸バリウム	13477-00-4	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-chloride	塩化バリウム	10361-37-2	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-cyanide	シアン化バリウム	542-62-1	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-dilaurate	ラウリン酸バリウム	4696-57-5	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-dioleate	ジオレイン酸バリウム	591-65-1	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-fluoride	フッ化バリウム	7787-32-8	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-hydroxide	水酸化バリウム無水物	17194-00-2	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-hydroxide-octahydrate	水酸化バリウム八水和物	12230-71-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-neodecanoate	ネオデカン酸バリウム	55172-98-0	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-nitrate	硝酸バリウム	10022-31-8	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-perchlorate	過塩素酸バリウム	13465-95-7	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D	Mandatory																
Barium-permanganate	過マンガン酸バリウム	7787-36-2	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-peroxide	過酸化バリウム	1304-29-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Barium-sebacate	セバシン酸バリウム	19856-32-7	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Naphthenic acid, Barium salts		61789-67-1	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Benzene	ベンゼン	71-43-2	Reduced Observation	To be prohibited: All applications and products except fuel To be controlled: Fuel	Relative to the weight of component parts and materials 1000 Concentration in fuel 10000	P D									●	●						●	
Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl-2,4,6-trinitro- (Musk xylene)	2,4,6-トリニトロ-5-テブチル-1,3-キシレン(ムスクキシレン)	81-15-2	Reduced	All applications and products	Relative to the weight of component parts and materials 1000	D					●						●	●	●				
Benzenemethanaminium, N-ethyl-N-[4-[[4-(ethyl[[3-sulfophenyl)methyl]amino]phenyl][2-sulfophenyl)methylene]-2,5-cyclohexadien-1-ylidene]-3-sulfo-, hydroxide, inner salt, disodium salt		3844-45-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	ジフェニルアミンとステレン、ジイソブチレンの反応物	68921-45-9	Prohibited Reduced	To be prohibited: All applications and tires except rubber, LG2 for Canadian market and its application for vehicles To be reduced: Applications for rubber except tires, LG2 for other than Canadian market or for its application for vehicles	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory															●		
1,4-Benzenediamine, N,N' -mixed Ph and tolyl derivs	1,4-ベンゼンジアミン	68953-84-4	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	●	
1,2-benzenedicarboxylic acid, di-C11-14-branched alkyl esters, C13-rich		68515-47-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
1,4 Benzenediol (Hydroquinone)	1,4-ベンゼンジオール (ハイドロキノン)	123-31-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Benzenepropanoic acid, 3-(1,1-dimethylethyl)-4-hydroxy-5-methyl-, 1,2-ethanediybis(oxy-2,1-ethanediy) ester		36443-68-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Benzenesulfonic acid, C10-16-alkyl derivs.		68584-22-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Benzenesulfonic acid, C10-16-alkyl derivs, compds. with 2-propanamine		68584-24-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts		68411-30-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Benzenesulfonic acid, dodecyl(sulfophenoxy)-, sodium salt (1:2)		28519-02-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Benzenesulfonic acid, oxybis[dodecyl-, disodium salt		25167-32-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Benzenesulfonic acid, [[4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]phenyl]amino]- (Pigment Blue 61)		1324-76-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Benzidine and its salts, all members	ベンジジンおよびその塩、すべて			All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																		
Benzidine	ベンジジン	92-87-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P	Mandatory						●									●	●	
Benzidine acetate	ベンジジン アセテート	36341-27-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																	●	
Benzidine salt	硫酸ベンジジン	531-86-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																	●	
Benzidine sulphate	(1,1'-ビフェニル)-4,4'-ジアミン 硫酸塩	21136-70-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																	●	
Benzidine, Ni(2+) salt	ベンジジン, Ni(2+)塩	67632-50-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P											●							
[1,1'-Biphenyl]-4,4'-diamine, dihydrochloride	二塩酸ベンジジン	531-85-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																●	●	
[1,1'-Biphenyl]-4,4'-diamine, 2,2'-dichloro-, sulfate (1:1)	(1,1'-ビフェニル)-4,4'-ジアミン, 2,2'-ジクロロ-, 硫酸塩 (1:1)	70146-07-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																		
3,3'-Dichlorobenzidine dihydrochloride	3,3'-ジクロロ-4,4'-ジアミノビフェニル硫酸塩	612-83-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P							●											●
3,3'-Dimethylbenzidine dihydrochloride	o-トリジン二塩酸塩	612-82-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																	●	
4,4'-Diaminodiphenyl-2,2'-disulfonic acid disodium salt	4,4'-ジアミノジフェニル-2,2'-ジスルホン酸二ナトリウム塩	27336-24-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																		
Acid Black 7	アシッドブラック7	8004-59-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																		
Direct Orange 1		13164-93-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																		
3,3'-Dichlorobenzidine	ジクロロベンジジン	91-94-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P	Mandatory						●										●	
3,3'-Dimethoxybenzidine	ジアニジン	119-90-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P	Mandatory						●										●	●
3,3'-Dimethylbenzidine	3,3'-ジメチルベンジジン	119-93-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P	Mandatory						●										●	
Salts from 3,3'-Dimethoxybenzidine		-	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																	●	
	2,2'-ジクロロベンジジン	84-68-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100								●											



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	ジクロロベンジジン	1331-47-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100								●										
Dipotassium O,O'-(4,4'-diaminobiphenyl-3,3'-ylene)diglycolate	O,O'-(4,4'-ジアミノジフェニル-3,3'-イレン)ニグルコール酸二カリウム	74220-10-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 100	P																	
Benzododecinium chloride	ベンゾドデシニウムクロリド	139-07-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,4-bis(1,1-dimethylethyl)phenyl ester		4221-80-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Benzothiazole-2-thiol; 2-Mercaptobenzothiazole	2-メルカプトベンゾチアゾール	149-30-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
2-Benzothiazolesulphenamide, N, N-dicyclohexyl-	N,N-ジソクロヘキサン-1-イル(1,3-ベンゾチアゾール-2-イルスルファニル)アミン	4979-32-2	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D						●											
2(3H)-Benzothiazolothione,sodium salt (1:1)		2492-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	2-(2H-ベンゾトリアゾール-2-イル)-4,6-ジtert-ペンチルフェニル (UV-328)	25973-55-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●					
2-(2H-benzotriazol-2-yl)-p-cresol (UV-P)		2440-22-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium and its compounds, all members	ベリリウムおよびその化合物, すべて			All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryl ore	ケイ酸ベリリウムアルミニウム	1302-52-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllate(2-), tetrafluoro-, diammonium	テトラフルオロベリリウム酸アンモニウム	14874-86-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium	ベリリウム	7440-41-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																●	
Beryllium aluminum alloy	ベリリウム-アルミニウム合金	12770-50-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium boride (Be2B)	ホウ化ベリリウム (Be2B)	12536-51-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium boride (Be4B)	ホウ化ベリリウム (Be4B)	12536-52-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium boride (BeB2)	ホウ化ベリリウム (BeB2)	12228-40-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium boride (BeB6)	ホウ化ベリリウム (BeB6)	12429-94-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium bromide (BeBr2)	ベリリウムブロミド (BeBr2)	7787-46-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium carbide (Be2C)	一炭化ニベリリウム	506-66-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium carbonate	塩基性炭酸ベリリウム	13106-47-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium carbonate	塩基性炭酸ベリリウム	66104-24-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium chloride	塩化ベリリウム	7787-47-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium di(acetate)	二酢酸ベリリウム	543-81-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium fluoride		12323-05-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium fluoride	フッ化ベリリウム	7787-49-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium hydroxide	水酸化ベリリウム	13327-32-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium iodide (BeI2)	ヨウ化ベリリウム (BeI2)	7787-53-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium nitride (Be3N2)	ニ窒化ニベリリウム	1304-54-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium oxide	酸化ベリリウム	1304-56-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D	Optional														●	●	
Beryllium phosphate	リン酸ベリリウム (BeHPO4)	13598-15-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium phosphide	リン化ベリリウム	58127-61-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium phosphide (BeP2)	リン化ベリリウム (BeP2)	57620-29-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium selenide (BeSe)	セレン化ベリリウム (BeSe)	12232-25-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium sulfate	硫酸ベリリウム(1:1)	13510-49-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium sulfate tetrahydrate	硫酸ベリリウム四水塩	7787-56-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Beryllium sulfide (BeS)	硫化ベリリウム (BeS)	13598-22-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium telluride (BeTe)	テルル化ベリリウム (BeTe)	12232-27-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium zinc silicate	ケイ酸ベリリウム亜鉛	25638-88-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Beryllium zinc silicate	ケイ酸ベリリウム亜鉛	39413-47-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Bis(pentane-2,4-dionato-O,O')beryllium	ビス(2,4-ペンタンジオナト)ベリリウム	10210-64-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Diethylberyllium	ジエチルベリリウム	542-63-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Disodium tetrafluoroberyllate	四フッ化ベリリウム酸ナトリウム	13871-27-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Hexakis[μ-(acetato-O,O')]-μ <sub>4</sub> -4-oxotetraberyllium	ヘキサキス[μ-(酢酸-O,O')]-μ <sub>4</sub> -オキソ四ベリリウム	19049-40-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphoric acid, beryllium salt	リン酸ベリリウム(混合)	35089-00-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphoric acid, beryllium salt (2:3)	リン酸ベリリウム(Ⅱ)、(2:3)	13598-26-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Silicic acid (H4SiO4), beryllium salt (1:2)	ケイ酸ベリリウム	15191-85-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Silicic acid, beryllium salt	ケイ酸ベリリウム塩	58500-38-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Biocidal coatings / biocidal additives, selected	バイオサイドコーティングおよびバイオサイド添加物、抜粋				Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
(+/-)-1-(β-allyloxy-2,4-dichlorophenylethyl)imidazole; Technical grade imazalil	イマザリル	73790-28-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
α,α',α,α'-[1,3,5-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol]	1,1',1''-(1,3,5-トリアジン-1,3,5-トリイル)トリス(プロパン-2-オール)	25254-50-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	1,2-ベンズイソチアゾリン-3-オン	2634-33-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
1,3-bis(hydroxymethyl)urea	ジメチロール尿素	140-95-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
1,3-didecyl-2-methyl-1H-imidazolium chloride	1,3-ジデシル-2-メチル-1H-イミダゾリウムクロライド	70862-65-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
1-[1,3-bis(hydroxymethyl)-2,5-dioximidazolidin-4-yl]-1,3-bis(hydroxymethyl)urea; Diazolidinylurea	ジアゾリジニル尿素	78491-02-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	2,2',2''-(ヘキサヒド-1,3,5-トリアジン-1,3,5-トリイル)トリエタノール	4719-04-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2,2-Dibromo-2-cyanoacetamide (DBNPA)	2,2-ジブロモ-2-シアミアセトアミド(DBNPA)	10222-01-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2,2'-dithiobis[N-methylbenzamide]	ビス(2-N-メチルベンズアミド)ジスルファイト	2527-58-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2,4-dichlorobenzyl alcohol	2,4-ジクロロベンジルアルコール	1777-82-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2-bromo-1-(4-hydroxyphenyl)ethan-1-one	2-ブロモ-1-(4-ヒドロキシフェニル)エタン-1-オン	2491-38-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2-Bromo-2-(bromomethyl)pentanedinitrile	2-ブロモ-2-(ブロモメチル)ペンタニトリル	35691-65-7	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2-Chloroacetamide	クロルアセトアミド	79-07-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2-methyl-4-thiazoline-3-ketone; 2-methyl-2H-isothiazol-3-one; MIT; Methylisothiazolinone	2-メチル-4-イソチアゾリン-3-オン	2682-20-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
2-n-butyl-benzo[d]isothiazol-3-one	2-ブチル-1,2-ベンゾチアゾール-3(2H)-オン	4299-07-4	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
2-Phenoxyethanol	2-フェノキシエタノール	122-99-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
2-Phenylphenol; Biphenyl-2-ol; 2-Hydroxybiphenyl	ビフェニル-2-オール	90-43-7	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
3(2H)-isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone	5-クロロ-2-メチル-イソチアゾール-3(2H)-オンと2-メチル-3(2H)-チアゾールオン混合物	55965-84-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
3-Iodo-2-propynyl butylcarbamate; 3-Iodo-2-propynylbutylcarbamate (IPBC)		55406-53-6	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
4,5-Dichloro-2-octyl-2H-isothiazol-3-one; 4,5-Dichloro-2-octylisothiazol-3(2H)-one (DCOT)		64359-81-5	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
4,5-dichloro-3H-1,2-dithiol-3-one	4,5-ジクロロ-3H-1,2-ジチオール-3-オン	1192-52-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
5-Chloro-2-(4-chlorophenoxy)-phenol (DCPP)	5-クロロ-2-(4-クロロフェノキシ)フェノール	3380-30-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
5-chloro-2-methyl-4-thiazoline-3-ketone	5クロロ2メチル4イソチアゾリン3オン	26172-55-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																	
Alpha-cypermethrin	アルファシベルメトリン	67375-30-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Aluminium phosphide; Aluminium phosphide releasing phosphine (under BPR)	燐化アルミニウム	20859-73-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P								●									
Aluminium sodium silicate-silver complex; Silver zeolite	銀担持ゼオライト	130328-18-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Aluminium sodium silicate-silver copper complex; Silver Copper Zeolite	銅担持ゼオライト	130328-19-7	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid	直鎖C10~16アルキルトリメチレンジアミンのクロ酢酸反応物	139734-65-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Ammonium bromide	臭化アンモニウム	12124-97-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Benzalkonium chloride; Quaternary ammonium compounds, alkylbenzyltrimethyl, chlorides	塩化ベンザルコニウム	8001-54-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Benzoxonium chloride	塩化ベンゾキリニウム	19379-90-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Benzyltrimethyl(octadecyl)ammonium chloride	ベンジルジメチル(オクタデシル)アンモニウムクロリド	122-19-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Benzyltrimethyloleylammonium chloride	ベンジルジメチルオレイルアンモニウムクロリド	37139-99-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Benzyltridodecylmethylammonium bromide	ベンジルトリドデシルメチルアンモニウム臭素	7281-04-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
(benzyloxy)methanol	ベンジロキシメタノール	14548-60-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Bifenthrin	ビフェントリン	82657-04-3	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Bis(2-sulfidopyridin-1-olato)copper; bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper	ビス(2-スルフィドピリジン-1-オラト)銅	14915-37-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Bis(tributyltin) oxide; 1,1,1,3,3,3-Hexabutylstannoxane; Tributyltin oxide (TBTO)	ビストリブチルスズオキシサイド	56-35-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory			●						●		●					



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Bis(trichloromethyl) sulphone	ビス(トリクロロメチル)スルホン	3064-70-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Boric acid	ホウ酸	11113-50-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory											●				●	
Boric acid crude natural)	ホウ酸	10043-35-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory											●				●	
Bromochloro-5,5-dimethylimidazolidine-2,4-dione	ブロモクロロ-5,5-ジメチルイミダゾリジン-2,4-ジオン	32718-18-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Bronopol; 2-bromo-2-nitropropane-1,3-diol	ブロンポール	52-51-7	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
C8-18alkylbis(2-hydroxyethyl)ammonium bis(2-ethylhexyl)phosphate	C8-18アルキルビス(2-ヒドロキシエチル)アンモニウムビス(2-エチルヘキシル)リン酸	68132-19-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Calcium dihexa-2,4-dienoate	ソルビン酸カルシウム	7492-55-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Captan; 1,2,3,6-tetrahydro-N-(trichloromethylthio)phthalimide	キャプタン	133-06-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Carbendazim	カルベンダジム	10605-21-7	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																●	
Cetalkonium chloride	セタルコニウムクロリド	122-18-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Cetylpyridinium chloride	塩化セチルピリジニウム	123-03-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Chlorfenapyr; 4-Bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile	クロルフェナピル	122453-73-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	クロルクレゾール	59-50-7	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Chlorothalonil; Tetrachloroisophthalonitrile	クロロトロン	1897-45-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Chlorotoluron; 3-(3-chloro-p-tolyl)-1,1-dimethylurea	クロトロン	15545-48-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Chromium (VI) trioxide; Trioxochromium	無水クロム(VI)酸	1333-82-0	Prohibited Reduced	To be prohibited: Applications subject to the ELV and RoHS Directives To be reduced: Applications not subject to the ELV and RoHS Directives	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory	●	●								●	●				●	
Cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine	シス-4-[3-(p-tert-ブチルフェニル)-2-メチルプロピル]-2,6-ジメチルモルホリン	67564-91-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Clothianidin; IFMB	クロシアジン	210880-92-5	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Copolymer of 2-propenal and propane-1,2-diol	2-プロパレナルとプロパン-1,2-ジオールのコポリマー	191546-07-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Copper (metallic)	銅(金属)	7440-50-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Copper carbonate hydroxide; Basic Copper carbonate; Copper (II) carbonate--copper (II) hydroxide (1:1)	水酸化銅(II)	12069-69-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Copper dihydroxide; Copper (II) hydroxide; Copper hydroxide	水酸化銅(II)	20427-59-2	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Copper oxide; Copper (II) oxide	酸化銅(II)	1317-38-0	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	

5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Copper sulphate	硫酸銅(II)	7758-98-7	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Copper sulphate pentahydrate		7758-99-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Creosote	クレオソート	8001-58-9	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D										●						●	●
Cu-HDO; Bis(N-cyclohexyl-diazenium-dioxy)-copper; Bis[1-cyclohexyl-1,2-di(hydroxy-kappa.O)diazenumato(2-)]-copper	ビス(N-シクロヘキシル-シアゼニウム-ジオキシ-銅)	312600-89-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Cybutryne; N'-tert-butyl-N-cyclopropyl-6-(methylthio)-1,3,5-triazine-2,4-diamine	シブトリン	28159-98-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Cyclohexylhydroxydiazene 1-oxide, potassium salt	シクロヘキシルヒドロキシジアゼン-1-オキシド ナトリウム塩	66603-10-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Cyfluthrin; beta-cyfluthrin; a-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	シフルトリン	68359-37-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Cyproconazole; (2RS,3RS; 2RS,3SR)-2-(4-chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol	シプロコナゾール	94361-06-5	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Dazomet; Tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione	ダゾメット	533-74-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
DDACarbonate; LZ 34000; Reaction mass of N,N-didecyl-N,N-dimethyl-ammonium carbonate and N,N-didecyl-N,N-dimethyl-ammonium bicarbonate	炭酸ジデシルジメチルアンモニウム	894406-76-9	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Decyldimethyloctylammonium chloride	ドデシルジメチルオクタイルアンモニウムクロリド	32426-11-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Deltamethrin; (S)-a-cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate	デルタメトリン	52918-63-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Diboron trioxide	三酸化二ほう素	1303-86-2	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D	Mandatory											●				●	
Dichlofluand; N-[[Dichlorofluoromethyl]thio]-N',N'-dimethyl-N-phenylsulfamide	ジクロフロアニド	1085-98-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Dichlorophene; dichlorophen	ジクロロフェン	97-23-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	●
Dicopper oxide	酸化銅(I)	1317-39-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Didecylmethylammonium bromide	ジデシルジメチルアンモニウム臭素	2390-68-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Didecylmethylammonium chloride (DDAC)	ジデシルジメチルアンモニウムクロリド	7173-51-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Didecylmethylpoly(oxyethyl)ammonium propionate; Poly(oxy-1,2-ethanediyl), alpha-[2-(didecylmethylammonio)ethyl]-omega-hydroxy-, propanoate (salt)	ジデシルメチルポリ(オキシエチル)アンモニウムプロピオンート	94667-33-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Dimethyldioctylammonium chloride	ジメチルジオクタイルアンモニウムクロリド	5538-94-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Dimethylfumurate	フマル酸ジメチル	624-49-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory									●							
Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammonium chloride	ジメチルオクタデシル[3-(トリメトキシシリル)プロピル]アンモニウムクロリド	27668-52-6	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Dimethyltetradecyl[3-(trimethoxysilyl)propyl]ammonium chloride	ジメチルテトラデシル[3-(トリメトキシシリル)プロピル]アンモニウムクロリド	41591-87-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Dipotassium disulphite	二亜硫酸二カリウム	16731-55-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Dipyrrithione	ジピリチオン	3696-28-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Disodium cyanodithiocarbamate	シアノジチオイミドカルボニル酸二ナトリウム塩	138-93-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Disodium disulphite; Disodium disulfite	二亜硫酸二ナトリウム	7681-57-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Disodium octaborate tetrahydrate; Boron sodium oxide (B8Na2O13), tetrahydrate	八ホウ素二ナトリウム・四水和物	12280-03-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Disodium tetraborate, anhydrous	四ホウ酸ナトリウム(無水物)	1330-43-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory											●				●	
Disodium tetraborate, decahydrate	四ホウ酸ナトリウム10水和物(ホウ砂)	1303-96-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory											●				●	
Disodium tetraborate, pentahydrate	四ホウ酸ナトリウム5水和物	12179-04-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory											●				●	
Diuron; 3-(3,4-dichlorophenyl)-1,1-dimethylurea (DCMU)	ジウロン	330-54-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Dodecylguanidine monohydrochloride	ドデシルグアニジン塩酸塩	13590-97-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
DOWICIL® 150 PRESERVATIVE; DOWICIL® 200 PRESERVATIVE	ダウ社製防腐剤 DOWICIL150/200	51229-78-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Esfenvalerate; (S)-α-cyano-3-phenoxybenzyl-(S)-2-(4-chlorophenyl)-3-methylbutyrate	エスフェンバレート	66230-04-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
(ethylenedioxy)dimethanol 1,6-Dihydroxy-2,5-dioxihexane	[1,2-エタンジイルビス(オキシ)]ヒスメタノール	3586-55-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Etofenprox; Ethofenprox; 3-Phenoxybenzyl-2-(4-ethoxyphenyl)-2-methylpropylether	エトフェンプロックス	80844-07-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Fenitrothion; O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate	フェニトロチオン	122-14-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Fenoxycarb; Ethyl [2-(4-phenoxyphenoxy)ethyl]carbamate	N-[2-(4-フェノキシエキソ)エチル]カルバミド酸エチル	72490-01-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Figronil; 5-Amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[[trifluoromethyl]sulfinyl]-1H-pyrazole-3-carbonitrile	フィグロニル	120068-37-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Fludioxonil; 4-(2,2-Difluoro-1,3-benzodioxol-4-yl)-1H-pyrrrole-3-carbonitrile	フルジオキソニル	131341-86-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Flufenoxuron; 1-[4-(2-Chloro-alpha, alpha, alpha-trifluoro-para-tolyloxy)-2-fluorophenyl]-3-(2,6-difluorobenzoyl)urea	フルフェノクスロン	101463-69-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Fluometuron	フルオメツロン	2164-17-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Folpet; N-(trichloromethylthio)phthalimide	フォルベット	133-07-3	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Formaldehyde	ホルムアルデヒド	50-00-0	Prohibited Reduced	To be prohibited: Applications and products for in-vehicle facilities To be reduced: All applications and products except those for in-vehicle facilities	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory															●	
Glutaral; Glutaraldehyde; Pentane-1,5-dial; Pentanedial	グルタルアルデヒド	111-30-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Guazatine triacetate	グアザチントリアセテート	115044-19-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Hexa-2,4-dienoic acid; Sorbic acid	2,4-ヘキサジエン酸 [ソルビン酸]	110-44-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Hexaboron dizinc undecaoxide	ホウ酸亜鉛	12767-90-7	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Hexafluorosilicic acid	6フッ化ケイ酸	16961-83-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Homopolymer of 2-tert-butylaminoethyl methacrylate (EINECS 223-228-4)	2-tert-ブチルアミノエチルメタアクリレートホモポリマー	26716-20-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Hydroxyl-2-pyridone	1-ヒドロキシ-2-ピリドン	822-89-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Imazali; 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole	イマザリル	35554-44-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Iodine (I)	ヨウ素	7553-56-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Isoproturon; 3-(4-isopropylphenyl)-1,1-dimethylurea	イソプロロン	34123-59-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
L-(+)-lactic acid	L-(+)-乳酸	79-33-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Lignin	リグニン	9005-53-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Magnesium phosphide; Trimagnesium diphosphide	リン化マグネシウム	12057-74-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Margosa ext.	インドセンダン(常緑樹)抽出物	84696-25-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Metam potassium; Potassium methylthiocarbamate	メタムカリウム	137-41-7	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Metam-sodium; Metam; Sodium ethylthiocarbamate	モノメチルシチオカルバミン酸ナトリウム	137-42-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Methenamine 3-chloroallylochloride	3-(3'-クロロアルル)ヘキサメチレンテトラアンモニウムクロライド	4080-31-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Miristalxonium chloride	ミリスチルコニウムクロリド	139-08-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	N(1)-(3-アミノプロピル)-N(1)-ドデシルプロパン-1,3-ジアミン	2372-82-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
N,N,N',N'-Tetramethylethylenediaminebis(2-chloroethyl)ether copolymer	テトラメチルエチレンジアミン-シクロエチルエーテル重合縮合物	31075-24-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
N,N'-methylenbismorpholine (MBM)	ジモルホリタン	5625-90-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Nabam; Disodium ethylenebis(N,N'-dithiocarbamate)	ナハム	142-59-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Naphthenic acids, copper salts	ナフテン酸の銅塩	1338-02-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
N-Didecyl-N-dipolyethoxyammonium borate; Didecylpolyoxyethylammonium borate	N-ジテシル-N-ジホリエキシアモニウムホウ素	214710-34-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Octhilinone; 2-octyl-2H-isothiazol-3-one		26530-20-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Oligo(2-(2-ethoxy)ethoxyethylguanidinium chloride)	オリゴ(2-(2-エトキシ)エトキシエチレングアニジニウム)クロリド	374572-91-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Oxine-copper	オキシン銅	10380-28-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
P-[[diiodomethyl]sulphony]toluene	ジヨードメチル-ポトリルスルホン	20018-09-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Permethrin; m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	ペルメトリン	52645-53-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Poly(hexamethylenediamine guanidinium chloride)	ホリ(ヘキサメチレンジアミングアニジニウム)クロリド	57028-96-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Poly(hexamethylenebicyanoguanide-hexamethylenediamine) Hydrochloride	ホリ(ヘキサメチレンビグアナイド-ヘキサメチレンジアミン)ハイドロクロリド	27083-27-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Poly(hexamethylenebiguanide)	ホリヘキサメチレンビグアナイド	91403-50-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Poly(hexamethylenebiguanide)hydrochloride	ホリ(ヘキサメチレンビグアナイド)ハイドロクロリド	32289-58-0	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Poly[iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl], hydrochloride		1802181-67-4	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Polyvinylpyrrolidone iodine	ホリビニルピロリドンヨウ素化合物	25655-41-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Potassium (E,E)-hexa-2,4-dienoate	カリウム(E,E)-ヘキサ-2,4-ジエンアート	24634-61-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Potassium 2-biphenylate	2-ビフェニレートカリウム	13707-65-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Potassium dimethyldithiocarbamate	ジメチルジチオカルバミン酸カリウム	128-03-0	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Potassium sulphite	亜硫酸カリウム	10117-38-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Prometryn	プロメトリン	7287-19-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Propiconazole; (1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole		60207-90-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Pyridine-2-thiol 1-oxide, sodium salt	2-メルカプトピリジン-N-オキサイドナトリウム塩	3811-73-2	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Pyrithione zinc; (T-4)-Bis[2-(thioxo-kappaS)-pyridin-1(2H)-olato-kappaO]zinc(II)	ジンクピリチオン	13463-41-7	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Quaternary ammonium compounds (benzylalkyldimethyl (alkyl from C8-C22, saturated and unsaturated, tallow alkyl, coco alkyl, and soya alkyl) chlorides, bromides or hydroxides)/BKC	ベンジルアルキルジメチル(アルキル(C=8~22) 飽和あるいは不飽和アリールアルキル、ココアルキル、大豆アルキル)塩化、臭化あるいは水酸化アンモニウム化合物	NA	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, [2-[[2-[[2-[[2-carboxyethyl][2-hydroxyethyl]amino]ethyl]amino]-2-oxoethyl]coco alkyldimethyl, hydroxides, inner salts	[2-[[2-[[2-[[2-カルボキシエチル][2-ヒドロキシエチル]アミノ]エチル]アミノ]-2-オキソエチル]ココアルキルジメチルアンモニウム水酸化物分子内塩	100085-64-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, benzyl-C10-16-alkyldimethyl, chlorides	ベンジルアルキル(C=10~16)ジメチルアンモニウムクロリド	68989-00-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides	アルキル(C=12~14)(ベンジル)(ジメチル)アンモニウムクロリド	85409-22-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; Alkyl (C12-16) dimethylbenzyl ammonium chloride; C12-16-ADBAC	塩化ベンジル[アルキル(C12~16)]ジメチルアンモニウム化合物	68424-85-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	アルキル(C=12~18)(ベンジル)(ジメチル)アンモニウムクロリド*	68391-01-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, benzyl-C8-16-alkyldimethyl, chlorides	ベンジルアルキル(C=8~16)ジメチルアンモニウムクロリド*	68424-84-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, bromides	ベンジルーアルキル(C=8~18)ジメチルアンモニウム臭素	91080-29-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	塩化ベンジル-C8-C18-アルカリジメチルアンモニウム化合物	63449-41-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, benzylcoco alkyldimethyl, chlorides	ベンジルクココアルキルジメチルアンモニウムクロリド*	61789-71-7	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides	塩化ビス(水素化牛脂)ジメチルアンモニウム化合物	61789-80-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	アルキル(C=12~14)(エチルフェニルメチル)(ジメチル)アンモニウムクロリド*	85409-23-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, coco alkytrimethyl, chlorides	ココアルキルトリメチルアンモニウムクロリド*	61789-18-2	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Quaternary ammonium compounds, di-C6-12-alkyldimethyl, chlorides	ジアルキル(C=6~12)ジメチルアンモニウムクロリド*	68391-06-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	ジアルキル(C=8~10)ジメチルアンモニウムクロリド*	68424-95-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, di-C8-18-alkyldimethyl, chlorides	ジアルキル(C=8~18)ジメチルアンモニウムクロリド*	73398-64-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides	塩化ジアルキルジメチルアンモニウム化合物	61789-77-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Quaternary ammonium iodides	第四級アンモニウムヨウ化物	308074-50-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Bethoxazin/3-benzo[b]thien-2-yl-5,6-dihydro-1,4,2-oxathiazine 4-oxide	3-(1-ベンゾチオフェン-2-イル)-4-オキソ-5,6-ジヒドロ-1,4,2-オキサチアジン	163269-30-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Reaction mass of titanium dioxide and silver chloride	酸化チタン	13463-67-7	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Titanium dioxide	酸化チタン	13463-67-7	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver chloride	塩化銀	7783-90-6	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver (Ag)	銀	7440-22-4	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver adsorbed on silicon dioxide (as a nanomaterial in the form of a stable aggregate with primary particles in the nanoscale)		1167997-68-3	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver nitrate	硝酸銀(I)	7761-88-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver phosphate glass	リン酸銀ガラス	308069-39-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver sodium hydrogen zirconium phosphate	リン酸-銀-ナトリウム-ジルコニウム	265647-11-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver sodium zirconium hydrogenphosphate	銀-ナトリウム-リン酸水素ジルコニウム	155925-27-2	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver zinc zeolite; Aluminium sodium silicate-silver zinc complex	銀・亜鉛担持ゼオライト	130328-20-0	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Silver-zinc-aluminium-boronphosphate glass; Glass oxide, silver- and zinc-containing	銀・亜鉛・アルミニウム担持リン酸ホスファートガラス	398477-47-9	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Sodium 2,4,6-trichlorophenolate	2,4,6-トリクロロフェノールナトリウム塩	3784-03-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Sodium 2-biphenylate; 2-phenylphenol, sodium salt	2-フェニルフェノールナトリウム塩	132-27-4	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Sodium bromide	臭化ナトリウム	7647-15-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Sodium dichromate anhydrous	ニクロム酸ナトリウム	10588-01-9	Prohibited Reduced	To be prohibited: Applications subject to the ELV and RoHS Directives To be reduced: Applications not subject to the ELV and RoHS Directives	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory	●	●								●	●			●		
Sodium dichromate dihydrate	ニクロム酸ナトリウムニ水和物	7789-12-0	Prohibited Reduced	To be prohibited: Applications subject to the ELV and RoHS Directives To be reduced: Applications not subject to the ELV and RoHS Directives	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory	●	●								●	●					
Sodium dimethyldithiocarbamate	ナトリウムジメチルジチオカルバマート	128-04-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Sodium hydrogen 2,2-methylenebis[4-chlorophenolate]	2,2'-メチレンビス[4-クロロフェノール]ナトリウム	10187-52-7	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Sodium hydrogensulphite; Sodium bisulphite	亜硫酸水素ナトリウム	7631-90-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Sodium hydroxymethylamino acetate	ヒドロキシメチルアミノ酢酸ナトリウム	70161-44-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Sodium p-chloro-m-cresolate	ナトリウム4-クロロ-3-メチルフェネラート	15733-22-9	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Sodium pentachlorophenolate; Pentachlorophenol, sodium salt	ペンタクロロフェノールナトリウム	131-52-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P				●													
Sodium sulphite	亜硫酸ナトリウム	7757-83-7	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Symclosene; 1,3,5-Trichloro-1,3,5-triazinane-2,4,6-trione	シムクロセン	87-90-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
TCMTB; (benzothiazol-2-ylthio)methyl thiocyanate	2-[(チオシアトメチル)スルファニル]-1,3-ベンゾチアゾール	21564-17-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Tebuconazole; 1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol		107534-96-3	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Terbutryn	テルブトリン	886-50-0	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Tetraboron disodium heptaoxide, hydrate	四ホウ酸ナトリウム水和物	12267-73-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D	Mandatory											●				●	
Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	N,N',N'',N'''-テトラメチロールイミダゾール	5395-50-6	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Tetrakis(hydroxymethyl)phosphonium sulphate(2:1)	テトラキス-ハイドロキシメチルホスホニウムスルファート	55566-30-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Thiabendazole; Thiabendazol; 2-(Thiazole-4-yl)benzimidazole		148-79-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Thiacloprid	チアクロピリド	111988-49-9	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Thiamethoxam	チアメキサム	153719-23-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Thiram; Tetramethylthiuram disulphide	テトラメチルチウラムジスルフィド (別名チウラム又はチラム)	137-26-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P									●								

5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Tolnaftate	トルナフトート	2398-96-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Tolyfluanid; dichloro-N-[(dimethylamino)sulphonyl]fluoro-N-(p-tolyl)methanesulphenamide	トルフルアノド	731-27-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Tosylchloramide sodium	トルクロルアミドナトリウム	127-65-1	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Triadimefon; 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1,2,4-triazol-1-yl)butanone	トリアジメフォン	43121-43-3	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Tributyltetradecylphosphonium chloride	トリブチルテトラデシルホスホニウムクロライド	81741-28-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Tributyltin naphthenate; Stannane, tributyl-, mono(naphthenoxy) derivs.	ナフテン酸トリブチルスズ	85409-17-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory			●						●							
Triclosan; 2,4,4-Trichloro-2-hydroxy diphenyl ether; 5-Chloro-2-(2,4-dichlorophenoxy)phenol	トリクロサン[2,4,4-トリクロロ-2'-ヒドロキシフェニルエーテル]	3380-34-5	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Troclosene sodium; Sodium dichloroisocyanurate dihydrate	ジクロロイソシアヌル酸ナトリウム	2893-78-9	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Troclosene sodium; Sodium dichloroisocyanurate dihydrate	ジクロロイソシアヌル酸ナトリウム	51580-86-0	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Beta-cypermethrin	ベータシベルメリン	52315-07-8	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Zinc oxide; C.I. 77947	酸化亜鉛	1314-13-2	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Zinc sulphide	硫化亜鉛	1314-98-3	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Ziram	ジラム	137-30-4	Reduced Observation	To be reduced: Application as a biocidal agent To be controlled: All applications and products except those used as a biocidal agent	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P																	
Bis(chloromethyl) ether (BCME)	ビス(クロロメチル)エーテル (BCME)	542-88-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P							●								●	●	
Butadiene, 1,3 -	ブタジエン (1,3-ブタジエン)	106-99-0	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																●	
Cadmium and its compounds, all members	カドミウムおよびその化合物, すべて			Note 3) Applications subject to the ELV and RoHS Directives (Electrical contacts outside the scope of applications are substances to be reduced) Note 4) Applications not subject to the ELV and RoHS Directives (including electrical contacts outside the scope of the ELV and RoHS Directives)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P																	
Antimony, compound with cadmium (2:3)	アンチモン,カドミウム (2:3)	12014-29-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●													●	
Boric acid, cadmium salt	ホウ酸カドミウム塩	51222-60-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●													●	
C.I. Pigment Orange 20 (Cadmium sulfoselenide orange)	ピグメントオレンジ20	12656-57-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	P		●	●													●	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classificatio n	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~ 16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
C.I Pigment Red 108 Cadmium sulfoselenide red	カドミウム赤	58339-34-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	P		●	●															
Cadmate(2-), tetrakis(cyano-C)-, dipotassium, (T-4)-	テトラシアノカドミウム酸カリウム	14402-75-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium	カドミウム	7440-43-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●									●				●		
Cadmium acetate	酢酸カドミウム	543-90-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium acrylate	アクリル酸カドミウム	15743-19-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium bis(2-ethylhexanoate)		2420-98-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium bromide		7789-42-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium bromide, tetrahydrate	臭化カドミウム四水和物	13464-92-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium carbonate	炭酸カドミウム(1:1)	513-78-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium chloride	塩化カドミウム無水物	10108-64-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●									●				●		
Cadmium chloride phosphate (Cd5C(PO4)3)	トリリン酸塩化カドミウム	12185-64-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Cadmium chloride phosphate (Cd5C(PO4)3), manganese-doped	トリリン酸塩化カドミウム マンガンドーブ塗料	100402-53-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●								
Cadmium chloride, hydrate (2:5)		7790-78-5	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium chromate	クロム酸カドミウム	14312-00-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium cyanide (Cd(CN)2)	シアン化カドミウム	542-83-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium dicosanoate	ジイコサン酸カドミウム	14923-81-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium dinitrite	二亜硝酸カドミウム	7790-83-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium diricinoleate	リシノール酸カドミウム	13832-25-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium fluoborate		14486-19-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium fluoride (CdF2)	フッ化カドミウム	7790-79-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●									●				●		
Cadmium hexafluorosilicate(2-)	フルオロケイ酸カドミウム	17010-21-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															
Cadmium hydrogen phosphate	リン酸水素カドミウム	14067-62-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●															

5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cadmium hydroxide (Cd(OH)2)	水酸化カドミウム	21041-95-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium iodate	ヨウ化カドミウム	7790-81-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium iodide		7790-80-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium Litophone Yellow		90604-90-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium Mercury Sulfide		1345-09-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium mercury telluride ((Cd,Hg)Te)	テルル化カドミウム水銀	29870-72-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium molybdenum oxide (CdMoO4)	モリブデン酸カドミウム	13972-68-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium niobium oxide (Cd2Nb2O7)	ニオブ酸カドミウム	12187-14-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium nitrate (Nitric acid cadmium salt tetrahydrate (Cd · 2NO3 · 4H2O))	硝酸カドミウム無水物	10022-68-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium nitrate (Nitric acid cadmium salt (2:1) (Cd · 2NO3))	硝酸カドミウム無水物	10325-94-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium oxide	酸化カドミウム	1306-19-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●							●		●				●	





5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cadmium selenide sulfide (Cd(Se,S))	硫セレン化カドミウム	12626-36-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	P		●	●							●							
Cadmium selenide sulfide (Cd2SeS)	硫セレン化カドミウム	12214-12-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium selenide sulfide (CdSe0.53S0.47)	硫セレン化カドミウム (CdSe0.53S0.47)	71243-75-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium selenide sulfide, (Cd2SeS)	硫セレン化カドミウム, (Cd2SeS)	12213-70-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●														
Cadmium selenide sulphide	硫化セレンカドミウム	11112-63-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium stearate	ステアリン酸カドミウム	2223-93-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium succinate	カドミナート	141-00-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium sulfate	硫酸カドミウム無水物	10124-36-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●							●		●				●	
Cadmium sulfate, hydrate	硫酸カドミウム8/3水和物	7790-84-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium sulfide	硫化カドミウム	1306-23-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●							●		●				●	
Cadmium sulphite	亜硫酸カドミウム	13477-23-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cadmium tantalum oxide (CdTa2O6)	チタンカドミウム六酸化物 (CdTa2O6)	12292-07-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium telluride (CdTe)	テルル化カドミウム	1306-25-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium titanium oxide (CdTiO3)	酸化チタンカドミウム	12014-14-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium tungsten oxide (CdWO4)	タングステン酸カドミウム	7790-85-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium vanadium oxide (CdV2O6)	酸化カドミウムバナジウム(CdV2O6)	16056-72-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium Zinc lithophone Yellow		90604-89-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium zinc sulfide	硫化亜鉛カドミウム	11129-14-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium zinc sulfide ((Cd,Zn)S)	硫化カドミウム亜鉛 ((Cd,Zn)S)	12442-27-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium Zink Sulfide Yellow	硫化亜鉛カドミウム	8048-07-5	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmium zirconium oxide (CdZrO3)	ジルコン酸カドミウム	12139-23-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
cadmium(+2) cation diformate	二ギ酸カドミウム	4464-23-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cadmium-barium laurate	ラウリン酸カドリウムバリウム	15337-60-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cadmiumbis(diethyldithiocarbamat)	ビス(ジエチルジチオカルバメート)カドミウム	14239-68-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Carbonic acid, cadmium salt	炭酸カドミウム	93820-02-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Diboron tricadmium hexaoxide	ホウ酸カドミウム	13701-66-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Dicadmium hexakis(cyano-C)ferrate(4-)	ヘキサキス(シアノ-C)フェライト(4-)ニカドミウム	13755-33-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Diphosphoric acid, barium cadmium salt	ニリン酸バリウムカドミウム塩	37131-86-5	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Diphosphoric acid, cadmium salt	ニリン酸カドミウム塩	19262-93-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Diphosphoric acid, cadmium salt (1:2)	ニリン酸カドミウム塩(1:2)	15600-62-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Dipotassium tetrachlorocadmiate(2-)	テトラクロロカドミウム酸(2-)ニカリウム	20648-91-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Nonanoic acid, branched, cadmium salt		93686-40-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Phosphoric acid, ammonium cadmium salt (1:1:1)	リン酸カドミウムアンモニウム(1:1:1)	14520-70-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100	D/P		●	●							●							





5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	酢酸カドミウム含水和物	5743-04-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	ジエチルカドミウム	592-02-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	硫酸カドミウム含水和物	15244-35-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	セレン酸カドミウム(II)・ニ水和物	10060-09-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	ドデシルベンゼンスルホン酸カドミウム(II)	31017-44-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	チオシアン酸カドミウム(II)	865-38-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	オクタノールカドミウム(II)	2191-10-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	4-メチル安息香酸カドミウム(II)	2420-97-5	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	ラウリン酸カドミウム(II)	2605-44-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	デカン酸カドミウム(II)	2847-16-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								
	安息香酸カドミウム(II)	3026-22-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●						●								

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~ 16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)			
	4-(1, 1-ジメチルエチル)安息香酸カドミウム(II)	4167-05-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															●		
	ノナン酸カドミウム(II)	5112-16-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	パルミン酸カドミウム(II)	6427-86-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	過塩素酸カドミウム(II)・六水和物	10326-28-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	オレイン酸カドミウム(II)	10468-30-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	過塩素酸カドミウム(II)	13760-37-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	三塩化カドミウムカリウム	14429-85-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	ビス(2, 4-ペンタンジオナト-O, O')カドミウム	14689-45-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	ビス(1-ビペリジンカルボジチオアト-S, S')カドミウム	14949-59-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	六塩化カドミウムカリウム	15276-40-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	
	三臭化カドミウムルビジウム	16593-57-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●																●	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	三塩化カドミウムアンモニウム	18532-52-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	三塩化カドミウムルビジウム	18532-58-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	フェノールカドミウム塩	18991-05-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	四塩化カドミウムナトリウム	21360-94-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	塩素酸カドミウム(II)	22750-54-5	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	メチル安息香酸カドミウム(II)	27476-27-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	硫酸ナトリウムカドミウム	28038-18-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	硫酸カリウムカドミウム	28038-25-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	硫酸セシウムカドミウム	28041-77-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	三塩化カドミウムカリウム・水合物	28302-54-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	イソオクタン酸カドミウム(II)	30304-32-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														

5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	硫酸バリウムカドミウム・六水和物	30623-04-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	(1, 1-ジメチルエチル)安息香酸カドミウム (I)	31215-94-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	三ヨウ化カドミウムアンモニウム	32593-99-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	硫酸セシウムカドミウム・六水和物	34345-39-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	塩化カドミウム (II)・一水和物	35658-65-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	3, 5, 5-トリメチルヘキサノ酸カドミウム (II)	36211-44-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	硫酸バリウムカドミウム・二水和物	38386-25-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	(R)-12-ヒドロキシオクタデカン酸カドミウム (II)	38517-19-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	2-メチル安息香酸カドミウム (II)	52337-78-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	三塩化カドミウムナトリウム	55425-74-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															
	ネオデカン酸カドミウム (II)	61951-96-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●															



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	ペンタデカン酸カドミウム (II)	63400-09-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	(Z, Z)-9, 12-オクタデカジエン酸カドミウム (II)	67839-62-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	3-メチル安息香酸カドミウム (II)	68092-45-5	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	12-ヒドロキシオクタデカン酸カドミウム (II)	69121-20-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	ビス[(Z)-2-ブテンニ酸モノオクタデシル]カドミウム (II)	71599-06-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	22-トリコセン酸カドミウム (II)	76835-97-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	六塩化カドミウムマグネシウム・十二水和物	77289-75-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	イソノナン酸カドミウム (II)	84696-56-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	イソオクタデカン酸カドミウム (II)	84878-36-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	tert-デカン酸カドミウム (II)	84878-37-5	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														
	ノニルフェノールカドミウム (II)	84878-48-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●														

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classificatio n	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~ 16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	オクチルフェノールカドミウム (II)	84878-51-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	2-プロピルペンタン酸カドミウム (II)	87835-30-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	4-ノニルフェノールカドミウム (II)	93894-08-7	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	4-(1, 1, 3, 3-テトラメチルブチル)フェノールカドミウム (I)	93894-09-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	イソデカン酸カドミウム (II)	93865-24-3	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	イソウンデカン酸カドミウム (II)	93865-30-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	ジメチルヘキサン酸カドミウム (II)	93983-65-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	イソヘキサデカン酸カドミウム (II)	95892-12-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	(Z)-2-ブテンニ酸モノ(2-メチルプロピル)カドミウム (II)	97259-82-0	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	四ヨウ化カドミウムアンモニウム	105034-60-4	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	テトラコサン酸カドミウム (II)	116854-17-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	臭素酸カドミウム	14518-94-6	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	硫酸カドミウム・四水和物	13477-21-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	硫酸カドミウム・八水和物	22465-18-5	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	水酸化カドミウム・水和物	29736-89-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	エチレンジアミン四酢酸二ナトリウムカドミウム	30363-28-1	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	ナフテン酸カドミウム	61789-34-2	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	過塩素酸カドミウム・水和物	79490-00-9	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
	酢酸カドミウム・水和物	89759-80-8	Prohibited Reduced	Note 3 Note 4	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100			●	●							●							
Chlorinated hydrocarbons, selected	塩素化炭化水素, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
1,1,1-Trichloroethane (Ethane, 1,1,1-trichloro-)	1,1,1-トリクロロエタン	71-55-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																
1,1,1,2-Tetrachloroethane	1,1,1,2-テトラクロロエタン	630-20-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
1,1,2 Trichloroethane	1,1,2-トリクロロエタン	79-00-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D									●	●							
Dichloromethane	ジクロロメタン	75-09-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D									●	●							
Trichloroethylene	トリクロロエチレン	79-01-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D				●					●		●	●				●	
1,1,2,2-tetrachloroethane		79-34-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 100											●							
	ペンタクロロエタン	76-01-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●							
Chlorinated or brominated Dibenzo-p-dioxins or Dibenzofurans, all members	塩素化および臭素化ジベンゾダイオキシンあるいはジベンゾフラン, すべて			All applications and products	Relative to the weight of component parts and materials 0.01	P																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)					
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-ヘブタクロロジベンゾフラン	67562-39-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																		●				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1,2,3,4,6,7,8-ヘブタクロロジベンゾジオキシン	35822-46-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,4,7,8,9-Hexachlorodibenzofuran	1,2,3,4,7,8,9-ヘブタクロロジベンゾフラン	55673-89-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,4,7,8-Hexachloro dibenzofuran	1,2,3,4,7,8-ヘキサクロロジベンゾフラン	70648-26-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1,2,3,4,7,8-ヘキサクロロジベンゾジオキシン	39227-28-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,6,7,8-Hexachloro dibenzofuran	1,2,3,6,7,8-ヘキサクロロジベンゾフラン	57117-44-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1,2,3,6,7,8-ヘキサクロロジベンゾジオキシン	57653-85-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,7,8,9-Hexachloro dibenzofuran	1,2,3,7,8,9-ヘキサクロロジベンゾフラン	72918-21-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1,2,3,7,8,9-ヘキサクロロジベンゾジオキシン	19408-74-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,7,8-Pentachloro dibenzofuran	1,2,3,7,8-ペンタクロロジベンゾフラン	57117-41-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1,2,3,7,8-ペンタクロロジベンゾジオキシン	40321-76-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
2,3,4,6,7,8-Hexachloro dibenzofurans	2,3,4,6,7,8-ヘキサクロロジベンゾフラン	60851-34-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
2,3,4,7,8-Pentachloro dibenzofurans	2,3,4,7,8-ペンタクロロジベンゾフラン	57117-31-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
2,3,7,8-Tetrachloro dibenzofurans	2,3,7,8-テトラクロロジベンゾフラン	51207-31-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	2,3,7,8-テトラクロロジベンゾ-1,4-ジオキシン	1746-01-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
2,7-Dichlorodibenzo-p-dioxin	2,7-ジクロロジベンゾ-p-ジオキシン	33857-26-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
Hexachlorodibenzodioxin	ヘキサクロロジベンゾ-p-ジオキシン	34465-46-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
Octachlorodibenzofuran	1,2,3,4,6,7,8,9-オクタクロロジベンゾフラン	39001-02-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
Octachlorodibenzo-p-dioxin	1,2,3,4,6,7,8,9-オクタクロロジベンゾジオキシン	3268-87-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 0.01	P																			●			
Chlorinated paraffins, short & medium chain length (SCCP, MCCP), all members: Note that the use of specific CAS numbers for these substances differs throughout the world. Example CAS numbers are provided below; however, other CAS numbers may be used that are not specific to chain length. Therefore, please consult your MSDS and supplier to determine product-specific chain length.			Prohibited Reduced	All applications and products	Relative to the weight of component parts and materials 10000	D/P																			●			
Short chain (SCCP), by definition: Chloroparaffins, unbranched, C <sub>x</sub> H <sub>(2x-y+2)</sub> Cl <sub>y</sub> , where x = 10-13 and y = 1-13	塩素化パラフィン(短鎖)(C=10-13)			All applications and products	Relative to the weight of component parts and materials 10000																							
Alkanes, C <sub>10-13</sub> , chloro	アルカン, C10-13, クロロ	85535-84-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																		●	●	●	
Alkanes, C <sub>12-13</sub> , chloro	アルカン, C12-13, クロロ	71011-12-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 10000	P	Mandatory																					
Medium chain (MCCP), by definition: Chloroparaffins, unbranched, C <sub>x</sub> H <sub>(2x-y+2)</sub> Cl <sub>y</sub> , where x = 14-17 and y = 1-17	塩素化パラフィン(中鎖)(C=14-17)			All applications and products	Relative to the weight of component parts and materials 10000																							
Alkanes, C <sub>14-17</sub> , chloro	アルカン, C14-17, クロロ	85535-85-9	Reduced	Auxiliary Materials for Production	Relative to the weight of component parts and materials 10000	D																						
OTHER: may or may not be short or medium chain.	塩素化パラフィン(短鎖, 中鎖以外)			All applications and products	Relative to the weight of component parts and materials 10000																							
Alkanes, C <sub>18-21</sub> , chloro	アルカン, C18-21, クロロ	84082-38-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 10000	D/P																						
Alkanes, chloro; chloroparaffins	塩素化塩化炭化水素類	61788-76-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 10000	P	Mandatory																					
Paraffin waxes and Hydrocarbon waxes, chloro	クロロワックス	51990-12-6	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																						
Paraffin waxes, chloro	塩素化パラフィンワックス	63449-39-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 10000	P																						



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Chlorinated n-paraffins (C <sub>6-10</sub> )	塩化パラフィン(炭素数6-18の化合物に限る)	68920-70-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 10000	P																	
Alkane, C10-14-, Chloro-	アルカン、C10-14、クロロ	85681-73-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 10000	D/P																	
Alkane, C12-14-, Chloro-	アルカン、C12-14、クロロ	85536-22-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 10000	D/P																	
Alkane, C16-27-, Chloro-	アルカン、C16-27、クロロ	84776-07-8	Reduced	Auxiliary Materials for Production	Relative to the weight of component parts and materials 10000	D/P																	
Alkane, C16-35-, Chloro-	アルカン、C16-35、クロロ	85049-26-9	Reduced	Auxiliary Materials for Production	Relative to the weight of component parts and materials 10000	D/P																	
Alkene, C12-24-, Chloro-	アルカン、C12-24、クロロ	68527-02-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 10000	D/P																	
5-Chlorobenzotriazole, 2-(2-Hydroxy-3-tert-butyl-5-methylphenyl)- (UV-326)		3896-11-5	Observation	All applications and products	Relative to the weight of component parts and materials 10000	D																	
Chromium(VI)-salts, all members	六価クロム塩、すべて			Note 5) To be prohibited: Applications subject to the ELV and RoHS Directives Note 6) To be reduced: Applications not subject to the ELV and RoHS Directives	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P																	
Ammonium bichromate	重クロム酸アンモニウム	7789-09-5	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Ammonium chromate	クロム酸アンモニウム	7788-98-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Barium chromate	クロム(VI)酸バリウム	10294-40-3	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●							●							
C.I. Pigment Orange 21	ピグメントオレンジ21	1344-38-3	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Calcium chromate	クロム酸カルシウム	13765-19-0	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●							●						●	
Chromic acid, calcium salt, (Calcium dichromate)		14307-33-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Cesium chromate	クロム酸セシウム	13454-78-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Chromate(1-), chlorotrioxo-, potassium, (T-4)	塩化クロム酸カリウム	16037-50-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Chromic acid	クロム酸(溶液)	7738-94-5	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●		●					
Chromic acid (H2Cr2O7)	重クロム酸	13530-68-2	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●		●					



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Chromic acid (H2Cr2O7), nickel(2+) salt (1:1)	重クロム酸 (H2Cr2O7), ニッケル(2+) 塩 (1:1)	15586-38-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●													●		
Chromic acid (H2CrO4), lanthanum(3+) salt (3:2)	クロム酸ランタン(III)	16565-94-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromic acid (H2CrO4), magnesium salt (1:1)	クロム酸マグネシウム	13423-61-5	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromic acid, ammonium salt	ニクロム酸アンモニウム(混合)	14445-91-1	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromic acid, barium potassium salt	クロム酸バリウムナトリウム塩	27133-66-0	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromic acid, potassium zinc salt	クロム酸亜鉛カリウム	41189-36-0	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromium (VI)	六価クロムイオン	18540-29-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromium (VI) chloride	六価塩クロム	14986-48-2	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromium lead oxide	クロム酸鉛	11119-70-3	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromium hydroxide oxide silicate	ケイ酸水酸化クロム酸化物	68475-49-0	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Chromyl chloride		14977-61-8	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Cobalt chromate (Chromic acid (H2CrO4), cobalt(2+) salt (1:1))	クロム酸コバルト(II)	13455-25-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Copper chromate	クロム酸銅(CuCrO4)	13548-42-0	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	
Copper dichromate	重クロム酸銅	13675-47-3	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														●	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Dilead chromate dihydroxide	水酸化クロム酸二鉛	12017-86-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●								
Dithallium dichromate	ニクロム酸ジタリウム	13453-35-5	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Lead chromate	クロム酸鉛	7758-97-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●				●		
Lead chromate oxide	塩基性クロム酸鉛	18454-12-1	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Lead chromate silicate	ケイ酸クロム鉛	11113-70-5	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Lead chromate silicate (Pb3(CrO4)(SiO4))	ケイクロム酸鉛	69011-07-0	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Lead chromate sulfate (Pb9(CrO4)5(SO4)4)	硫酸鉛クロメート (Pb9(CrO4)5(SO4)4)	51899-02-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Lead sulfochromate yellow(C.I. Pigment Yellow 34)	硫クロム酸鉛黄色 (C.I.ピグメントイエロー34)	1344-37-2	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●				●		
Lithium chromate	クロム酸リチウム	14307-35-8	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Magnesium dichromate	ニクロム酸マグネシウム	14104-85-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Mercury dichromate	ニクロム酸第二水銀	7789-10-8	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Mercury (I) chromate	クロム酸水銀	13465-34-4	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Mercury (II) chromate	クロム酸水銀(II)	13444-75-2	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Molybdate orange (Lead chromate pigment)	クロム酸モリブデン酸亜硫酸鉛赤 (C.I.ピグメントレッド104)	12656-85-8	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●				●		

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Nickel chromate	クロム酸ニッケル	14721-18-7	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●						●		
Nitric acid, barium salt, reaction products with ammonia, chromic acid (H2CrO4) diammonium salt and copper(2+) dinitrate, calcined	アンモニア、クロム酸(H2CrO4) ニアンモニウム塩、か焼二硝酸により反応生成される硝酸バリウム塩	99328-50-4	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Nitric acid, copper(2+) salt, reaction products with ammonia, chromic acid (H2CrO4) diammonium salt and manganese(2+) dinitrate, kilned	炉内のクロム酸(H2CrO4) ジアンモニウム塩とマンガン(Ⅱ) 二硝酸のアンモニア反応生成による銅	100402-65-1	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Potassium chromate	クロム酸カリウム	7789-00-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●					●	
Potassium dichromate	重クロム酸カリウム	7778-50-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●					●	
Silver chromate	クロム酸銀	7784-01-2	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
dichromium tris(chromate)	トリス(クロメート)ニクロム、クロム酸/クロム(Ⅲ)	24613-89-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●	●					●	
Sodium chromate	クロム酸ナトリウム	7775-11-3	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●					●	
Strontium chromate	クロム(VI)酸ストロンチウム	7789-06-2	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●					●	
Thallium (I) chromate	クロム酸タリウム(I)	13473-75-1	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Zinc chromate	クロム酸亜鉛	1328-67-2	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Zinc chromate	クロム酸亜鉛	13530-65-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●							
Zinc chromate hydroxide	亜鉛クロメート水酸化物	15930-94-6	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							
Zinc dichromate	重クロム酸亜鉛	14018-95-2	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●								●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Zinc potassium chromate	クロム酸亜鉛カリウム(K <sub>2</sub> Zn <sub>2</sub> (CrO <sub>4</sub> ) <sub>2</sub> (OH))	11103-86-9	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●					
Zinc yellow (Zinc chromate pigment)	亜鉛黄	37300-23-5	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
dihydroxy-dioxo-chromium		11115-74-5	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
potassium; dioxido-dioxo-chromium		12433-50-0	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
Pentazinc chromate octahydroxide	クロム酸八水酸化五亜鉛	49663-84-5	Prohibited Reduced	Note 5 Note 6	Prohibited from intentional use Impurity: Hexavalent chromium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●								●	●					
Cobalt and its compounds, all members	コバルトおよびその塩、すべて			All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D/P																	
Sulfuric acid, cobalt(2+) salt (1:1)-	硫酸コバルト(II)	10124-43-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D												●			●		
Sodium [4-[[6-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-1-hydroxy-3-sulpho-2-naphthyl]azo]-3-hydroxy-7-nitronaphthalene-1-sulphonato(4-)]cobaltate(1-)	[4-[[6-[[4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル)アミノ]-1-ヒドロキシ-3-スルフォ-2-ナフチル]アゾ]-3-ヒドロキシ-7-ニトロナフタレン-1-スルフォナト(4-)]コバルト酸(1-)ナトリウム	100231-59-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
(Ethylenediamine-N)(1-imino-1H-indol-3-aminato-N <sub>2</sub> )[29H,31H-phthalocyaninato-N <sub>29</sub> ,N <sub>30</sub> ,N <sub>31</sub> ,N <sub>32</sub> ]cobalt	(エチレンジアミン-N)(1-イミノ-1H-インゾインドール-3-アミノ-N <sub>2</sub> )[29H,31H-フタロシアニン酸-N <sub>29</sub> ,N <sub>30</sub> ,N <sub>31</sub> ,N <sub>32</sub> ]コバルト	83898-69-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
[μ <sub>2</sub> -[Carbonato(2-)-O,O']]dihydroxydicobalt	炭酸水酸化コバルト(1:1)	12069-68-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
[5,10,15,20-Tetraphenyl-21H,23H-porphinato(2-)-N <sub>21</sub> ,N <sub>22</sub> ,N <sub>23</sub> ,N <sub>24</sub> ]cobalt	[5,10,15,20-テトラフェニル-21H,23H-ポルフィン酸-N <sub>21</sub> ,N <sub>22</sub> ,N <sub>23</sub> ,N <sub>24</sub> ]コバルト	14172-90-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
1,2,4-Benzenetricarboxylic acid, cobalt(2+) salt (1:1)	1,2,4-ベンゼントリカルボン酸, コバルト(2+) (1:1)	67801-57-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
1,4-Benzenedicarboxylic acid, cobalt salt	1,4-ベンゼンジカルボン酸, コバルト	34262-88-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
1,4-Benzenedicarboxylic acid, monomethyl ester, cobalt(2+) salt	ビス(p-(メキシカルボニル)安息香酸)コバルト(II)	51084-32-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
2(3H)-Benzothiazolethione, cobalt(2+) salt	2(3H)-ベンゾチアゾールチオンコバルト(II)	29904-98-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
2-Propenoic acid, 2-methyl-, cobalt(2+) salt	ビス(2-メチルプロペン酸)コバルト(II)	67952-53-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
2-Propenoic acid, cobalt(2+) salt	アクリル酸コバルト	58197-53-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
9,12-Octadecadienoic acid (ZZ)-, cobalt salt	(9Z,12Z)-9,12-オクタデカジエン酸,コバルト(1:x)	14666-96-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
9-Octadecenoic acid (Z)-, cobalt salt	(Z)-9-オクタデセン酸,コバルト(1:x)	14666-94-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Acetic acid, bromo-, cobalt(2+) salt	ビス(2-ブロモ酢酸)コバルト(II)	54846-43-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Acetic acid, cobalt(2+) salt, tetrahydrate	酢酸コバルト(II)四水和物	6147-53-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Acetic acid, cobalt(3+) salt	酢酸コバルト(Ⅲ)	917-69-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Adipic acid, cobalt salt	ヘキサニ二酸コバルト	54437-56-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Aluminum boron cobalt lithium nickel oxide		207803-51-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D										●							
Aluminum cobalt lithium nickel oxide		193214-24-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D										●							
Aluminum cobalt oxide	アルミニウムコバルト酸化物	12672-27-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Aluminum cobalt oxide (Al2CoO4)	四酸化コバルト(Ⅱ)ニアルミニウム	1333-88-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Ammonium bis[4-hydroxy-3-[(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]-N-methylbenzenesulphonamide S,S-dioxido(2-)]cobaltate(1-)	ビス[4-ヒドロキシ-3-[(5-ヒドロキシナフト[2,1-d]-1,3-オキサチオール-4-イル)アゾ]-N-メチルベンゼンサルホン酸アミド-S,S-ジオキシダト(2-)]コバルト酸(1-)アンモニウム	83847-05-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Ammonium cobalt orthophosphate	アンモニウム コバルト化合物	36835-61-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Antimony, compound with cobalt (1:1)	アンチモンコバルト化合物(1:1)	12052-42-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Benzoic acid, 4-amino-, cobalt(2+) salt (2:1)	4-アミノ安息香酸コバルト(Ⅱ)塩(2:1)	68123-03-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Benzoic acid, methyl-, cobalt salt	トルイル酸コバルト塩	42978-77-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis(1,3-diphenylpropane-1,3-dionato-O,O')cobalt	ビス(1,3-ジフェニルプロパン-1,3-ジオナト-O,O')コバルト	14405-50-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis(1-phenylbutane-1,3-dionato-O,O')cobalt	ビス(1-フェニルブタジエン-1,3-ジオナト-O,O')コバルト	14128-95-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis(6-methylheptane-2,4-dionato-O,O')cobalt	ビス(6-メチルヘプタン-2,4-ジオナト-O,O')コバルト	79215-59-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis(D-gluconato-O1,O2)cobalt	ビスグルコン酸コバルト	71957-08-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis(dibutylidithiocarbamato-S,S')cobalt	ビス(ジブチルジチオカルバミン酸-S,S')コバルト	14591-57-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis(diethylidithiocarbamato-S,S')cobalt	ビスジエチルジチオカルボン酸-S,S'-コバルト	15974-34-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis(N,N-dimethylpropane-1,3-diamine-N)[2,3,9,10,16,17,23,24-octahydro-29H,31H-tetrakis[1,4]dithiino[2,3-b:2',3'-g:2'',3''-l:2''',3''''-q]porphyrinato(2-)-N29,N30,N31,N32]cobalt	ビス(N,N-ジメチルプロパン-1,3-ジアミン-N)[2,3,9,10,16,17,23,24-オクタヒドロ-29H,31H-テトラキス[1,4]ジチイノ[2,3-b:2',3'-g:2'',3''-l:2''',3''''-q]ポルフィラジン酸(2-)-N29,N30,N31,N32]コバルト	83863-98-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis(N,N-dimethylpropane-1,3-diamine-N)[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]cobalt	ビス(N,N-ジメチルプロパン-1,3-ジアミン-N)[29H,31H-フタロシアニン酸(2-)-N29,N30,N31,N32]コバルト	83863-97-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Bis[2-[(5-chloro-2-pyridyl)azo]-5-(diethylamino)phenolato]cobalt(1+) chloride	ビス[2-[(5-クロロ-2-ピリジル)アゾ]-5-(ジエチルアミノ)フェノール酸]コバルト(1+)塩素	81342-98-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Carbonic acid, cobalt salt	炭酸、コバルト塩	7542-09-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cassiterite, cobalt manganese nickel grey	スズ石(コバルトマンガンニッケルグレー)	99749-23-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D										●							
Cerium, compound with cobalt (1:5)	セリウム、コバルト化合物(1:5)	12214-13-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cerium, compound with cobalt (2:7)	セリウム、コバルト化合物(2:7)	12515-29-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Chloro[2,2',2''-nitrioltris[ethanolato]-N,O,O',O']cobalt	クロロ[2,2',2''-ニトリオトリス(エタノラト)-N,O,O',O']コバルト	36217-04-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Chloropentakis(methylamine)cobalt dichloride	クロロペンタキス(メチルアミン)コバルト二塩化物	15392-59-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Chromium cobalt copper iron manganese oxide	クロム、コバルト、銅、鉄の酸化物	102262-21-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Chromium cobalt iron manganese oxide	クロム、コバルト、鉄、マンガンの酸化物	102262-22-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Chromium cobalt manganese oxide	クロム、コバルト、マンガンの酸化物	102262-19-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Chromium cobalt oxide	酸化クロムコバルト	37382-24-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Chromium cobalt oxide (Cr2CoO4)	酸化コバルトクロム	12016-69-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt (II) chloride, hexahydrate	塩化コバルト(II)六水和物	7791-13-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt bis(2-ethylhexanoate)	2-エチルヘキサン酸コバルト(C8H16O2 1/2Co)	136-52-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt bis(nonylphenolate)	コバルトビス(ノニルフェノール)	83970-30-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt bis[citrato(3-)]di-mu-oxodioxodimolybdate(2-)	ビス[クエン酸(3-)]ジ-μ-オキソジオキソジモリブデン酸(2-)コバルト	93776-58-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt boride (Co2B)	ホウ化コバルト(Co2B)	12045-01-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt boride (Co3B)	ホウ化コバルト(Co3B)	12006-78-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt carbonate	炭酸コバルト	513-79-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D												●			●		
Cobalt carbonyl	コバルトカルボニル	10210-68-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt chloride (CoCl3)	塩化コバルト	10241-04-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt chromite blue green spinel		68187-50-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D		●	●							●							
Cobalt chromium alloy		11114-92-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D		●	●							●							
Cobalt dilactate	乳酸コバルト	16039-54-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt dilaurate	ラウリン酸コバルト(II)	14960-16-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt dillinoleate	リノール酸コバルト(II)	6401-84-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt dinitocinate	リノール酸コバルト(II)	28029-53-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt dioctanoate	カプリル酸第一コバルト	1588-79-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt dioleate	オレイン酸コバルト(II)	19192-71-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt dipalmitate	パルミチン酸コバルト(II)	14582-18-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt disodium ethylenediaminetetraacetate	エチレンジアミン四酢酸コバルト二ナトリウム	15137-09-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobalt distearate	オクタデカン酸コバルト(Ⅱ)	1002-88-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt disulfide	二硫化コバルト	12013-10-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt fluoride (CoF3)	フッ化コバルト(Ⅲ)	10026-18-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt glycinate	グリシン酸コバルト	17829-66-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt hexafluorosilicate(2-)	ヘキサフルオロケイ酸コバルト(2-)	12021-67-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt hydroxide	水酸化コバルト(Ⅱ)	21041-93-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt hydroxide oxide (Co(OH)O)	水酸化コバルト酸化物	12016-80-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt iodide (CoI2)	ヨウ化コバルト(Ⅱ)	15238-00-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt iron oxide (CoFe2O4)	四酸化二鉄(Ⅲ)コバルト(Ⅱ)	12052-28-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt lithium manganese nickel oxide		182442-95-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt lithium manganese nickel oxide		346417-97-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt magnesium red blue borate		68608-93-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt metasilicate	メタケイ酸コバルト	25139-08-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt molybdenum nickel oxide (CoMo2NiO8)	酸化コバルトモリブデンニッケル(CoMo2NiO8)	68016-03-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt naphthenate	ナフテン酸コバルト	61789-51-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt neodecanoate	ネオデカン酸コバルト(混合)	27253-31-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt nickel oxide (CoNiO2)	酸化コバルトニッケル(CoNiO2)	58591-45-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt nitrate	硝酸コバルト(Ⅱ)六水和物	10026-22-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt octoate	2-エチルヘキサン酸コバルト(C8H16O2 xCo)	13586-82-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt oxide	酸化コバルト(Ⅱ)	1307-96-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt oxide (Co2O3)	三酸化コバルト	1308-04-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt oxide (Co3O4)	四酸化三コバルト	1308-06-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt phosphide (Co2P)	リン化コバルト(Co2P)	12134-02-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt propionate	プロピオン酸コバルト	1560-69-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt selenide (CoSe)	セレン化コバルト	1307-99-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobalt silicate	ケイ酸コバルト	26686-74-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt silicide (CoSi2)	ニケイ化コバルト	12017-12-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt succinate	スクシン酸コバルト	3267-76-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt sulfate heptahydrate	硫酸コバルト(Ⅱ)七水和物	10026-24-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	●
Cobalt sulfide (CoS3)	硫化コバルト(Ⅲ)	1332-71-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt tellate	脂肪酸タール油コバルト(混合)	61789-52-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt telluride (CoTe)	テルル化コバルト	12017-13-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt tetra(2-ethylhexyl) bis(phosphate)	四(2-エチルヘキシル)ビスリン酸コバルト	24828-46-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt tin oxide (CoSnO3)	酸化コバルトスズ	1345-19-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt titanium oxide (Co2TiO4)	酸化チタンコバルト(Co2TiO4)	12017-38-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt titanium trioxide	チタン酸コバルト	12017-01-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt titanium tungsten oxide ((Co,Ti,W)O2)	酸化コバルトチタンタングステン ((Co,Ti,W)O2)	144437-67-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt zirconium oxide (CoZrO3)	酸化コバルトジルコニウム(CoZrO3)	69011-09-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(2+) dibromate	二ホウ酸コバルト(Ⅱ)	14732-58-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(2+) dinickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	ビス[ 2-ヒドロキシプロパン-1,2,3-トリカルボン酸]コバルト(Ⅱ) ニッケル(Ⅱ)	94232-44-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D										●							
Cobalt(2+) ethanolate	コバルト(Ⅱ)酢酸塩	19330-29-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(2+) selenite	亜セレン酸コバルト	10026-23-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(2+) tert-decanoate	ターシャリー-デカン酸コバルト(Ⅱ)	84195-99-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(2+), bis(1,2-ethanediamine-N,N)-, bis[bis(cyano-C)aurate(1-)]	ビス(1,2-エタンジアミン-N,N) コバルト(2+)、ビス[ビス(シアノ-C) 金酸塩(1-)]	68958-90-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(2+), bis(1,2-propanediamine-N,N)-, bis[bis(cyano-C)aurate(1-)]	ビス(1,2-プロパンジアミン-N,N) コバルト(Ⅱ)、ビス[ビス(シアノ-C) 金酸塩(1-)]	67906-18-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(2+), pentaaminechloro-, dichloride, (OC-6-22)-	二塩化(ペンタアミンクロロ) コバルト(Ⅱ)	13859-51-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(3+), hexaamine-, (OC-6-11)-, phosphate (1:1)	リン酸ヘキサアンミンコバルト(Ⅲ)	55494-92-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(3+), hexaamine-, (OC-6-11)-, salt with trifluoroacetic acid(1:3)	ヘキサアンミンコバルト(3+) 塩、三フッ化酢酸混合物(1:3)	59561-55-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(3+), hexaamine-, (OC-6-11)-, triacetate	六アミンコバルト(3+)三酢酸(炭素数6-11)	14023-85-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt(3+), hexaamine-, (OC-6-11)-, trinitrate	硝酸ヘキサアンミンコバルト(Ⅲ)	10534-86-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Cobalt(3+), hexaamine-, trichloride, (OC-6-11)-	ヘキサアンミンコバルト(Ⅲ)塩化物	10534-89-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt(3+), tris(1,2-ethanediamine-N,N'), trichloride, (OC-6-11)-	トリス(1,2-エタンジアミン-N,N')-コバルト(3+)三塩化物(炭素数6~11)	13408-73-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt(II) acetate	酢酸コバルト(Ⅱ)	71-48-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D												●			●			
Cobalt(II) fluoroborate	テトラフルオロボロ酸コバルト(Ⅱ)	26490-63-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt(II) fluoride	フッ化コバルト(Ⅱ)	10026-17-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt(II) sulfide	硫化コバルト(Ⅱ)	1317-42-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, ((2,2'-(1,2-ethanediybis(nitrilomethylidene))bis(6-fluorophenolato))(2-,N',O,O')-	((2,2'-(1,2-エタンジイルビス(ニトロメチリジン))ビス(6-フルオロフェノラト))(2-,N',O,O')コバルト	62207-76-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, [(2-amino-2-oxoethoxy)acetato(2-)]-	[(2-アミノ-2-オキソエトキシ)酢酸(2-)]コバルト	68133-85-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	コバルトフタロシアニン	3317-67-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, [29H,31H-phthalocyanine-C,C-disulfonyl dichloridato(2-)-N29,N30,N31,N32]-	[29H,31H-フタロシアニン-C,C-ニスルホニル塩素酸(2-)-N29,N30,N31,N32]コバルト	68189-40-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, [29H,31H-phthalocyanine-C-sulfonylchloridato(2-)-N29,N30,N31,N32]-	[29H,31H-フタロシアニン-C-スルホニルクロリダト(2-)-N29,N30,N31,N32]コバルト	67875-38-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, [3-hydroxy-4-[[1-(p-mercaptophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl]azo]-o-benzenesulfonanisididato(2-)]-, S-(hydrogen sulfate), monosodium salt	[3-ヒドロキシ-4-[[1-(p-メルカプトフェニル)-3-メチル-5-オキソ-2-ピラゾリン-4-イル]アゾ]-o-ベンゼンスルホンアニシジン酸(2-)]-S-(硫酸水素)コバルトナトリウム塩	18285-21-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, [4-hydroxy-3-[[1-(p-mercaptophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl]azo]-o-benzenesulfonphenetidato(2-)]-, S-(hydrogen sulfate), monosodium salt	[4-ヒドロキシ-3-[[1-(p-メルカプトフェニル)-3-メチル-5-オキソ-2-ピラゾリン-4-イル]アゾ]-o-ベンゼンスルホンアニシジン酸(2-)]-S-(硫酸水素)コバルトナトリウム塩	19052-32-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, [N-(carboxymethyl)glycinato(2-)-N,O,ON]-	[N-カルボキシメチルグリシン酸(2-)-NOON]コバルト	13869-30-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, bis(acetato-O)(1,4-diazabicyclo[2.2.2]octane-N1)-, homopolymer	ビス(アセテート-O)(1,4-ジアザビシクロ[2.2.2]オクタン-N1)コバルトホモポリマー	68239-56-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, bis(D-glycero-D-ido-heptonato)-	ビス(D-グリセロ-D-イド-ヘプトナト)コバルト	68475-45-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, bis(dicyclohexylphosphinodithioato-S,S')-	ビス(ジシクロヘキシルジチオリン酸-S,S')コバルト	40621-10-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, bis[[2,3-butanedione dioximato(1-)-N,N']-, (SP-4-1)-	ビス[[2,3-ブタンジジオンジオキシメト(1-)-N,N']コバルト	3252-99-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, bis[alpha-(1-oxo-1H-isoindol-3-yl)-1H-benzimidazole-2-acetonitrilato]-, (T-4)-	ビス[α-(1-オキソ-1H-イソインドール-3-イル)-1H-ベンズイミダゾール-2-アセトニトリラト]コバルト(Ⅱ)	60109-88-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, bis[2-[[2-hydroxy-5-[[methylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-	ビス[2-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル]アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト	69178-42-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, bis[3-(1H-benzimidazol-2-ylamino)-1H-isoindol-1-onato]-, (T-4)-	ビス[3-(1H-ベンズイミダゾール-2-イルアミノ)-1H-イソインドール-1-オナト]コバルト(Ⅱ)	63287-28-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, bis[carbonato(2-)]hexahydroxypenta-	ビス炭酸六水酸化六コバルト	12602-23-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, C4-10-fatty acid naphthenate complexes	脂肪酸(炭素数4-10)、ナフテン酸混合物中のコバルト	84066-85-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt, C5-23-branched carboxylate C4-10-fatty acid naphthenate complexes	分岐型カルボン酸(炭素数5-23)、脂肪酸(炭素数4-10)、ナフテン酸の混合物のコバルト塩	83711-42-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobalt, C5-23-branched carboxylate naphthenate complexes	分岐型カルボン酸(炭素数5-23)、ナフテン酸の混合物のコバルト塩	83711-43-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, C5-23-branched carboxylate naphthenate octanoate complexes	分岐型カルボン酸(炭素数5-23)、ナフテン酸、オクタン酸の混合物のコバルト塩	83711-44-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with gadolinium (3:1)	コバルト,ガドリニウム化合物(3:1)	12017-50-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with gadolinium (5:1)	コバルト,ガドリニウム化合物(5:1)	12017-61-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with gadolinium (7:2)	コバルト,ガドリニウム化合物(7:2)	11139-24-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with lanthanum (3:1)	コバルト,ランタン化合物(3:1)	61419-68-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with lanthanum (5:1)	コバルト,ランタン化合物(5:1)	12297-66-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with lanthanum (7:2)	コバルト,ランタン化合物(7:2)	12268-07-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with neodymium (3:1)	コバルト,ネオジム化合物(3:1)	12187-43-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with neodymium (5:1)	コバルト,ネオジム化合物(5:1)	12017-65-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with neodymium (7:2)	コバルト,ネオジム化合物(7:2)	12516-51-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with praseodymium (5:1)	コバルト,プラセオジム化合物(5:1)	12017-67-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with praseodymium (7:2)	コバルト,プラセオジム化合物(7:2)	12516-52-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with samarium (17:2)	コバルト,サマリウム化合物(17:2)	12052-78-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with samarium (2:1)	コバルト,サマリウム化合物(2:1)	12017-43-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with samarium (3:1)	コバルト,サマリウム化合物(3:1)	12187-46-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with samarium (5:1)	コバルト,サマリウム化合物(5:1)	12017-68-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with samarium (7:2)	コバルト,サマリウム化合物(7:2)	12305-84-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with yttrium (3:1)	コバルト,イットリウム化合物(3:1)	12052-62-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with yttrium (5:1)	コバルト,イットリウム化合物(5:1)	12017-71-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, compound with yttrium (7:2)	コバルト,イットリウム化合物(7:2)	12052-70-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, dibromobis(triphenylphosphine)-, (T-4)-	ジブロモビス(トリフェニルホスフィン) コバルト (II)	14126-32-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, dibromobis[tris(3,5-dimethylphenyl)phosphine]-, (T-4)-	ジブロモビス[トリス(3,5-ジメチルフェニル)ホスフィン] コバルト (II)	69198-43-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, dibromobis[tris(3-methylphenyl)phosphine]-, (T-4)-	ジブロモビス(トリス(3-メチルフェニル)ホスフィン)コバルト (II)	49651-10-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, dichloro(1,4-diazabicyclo[2.2.2]octane-N1)-, homopolymer	ジクロロ(1,4-ジアザビシクロ[2.2.2]オクタン-N1) コバルトホモポリマー	68239-58-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobalt, elemental	コバルト	7440-48-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, tetrakis[[2,3-butanedione dioximato(1-)-N,N']bis(pyridine)di-, (Co-Co)	テトラキス[[2,3-ブタジエンジジオキシメト(1-)-N,N']ビス(ピリジン)ジコバルト	25971-15-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, tris(2,4-pentanedionato-O,O')-, (OC-6-11)-	トリス(2,4-ペンタンジオナトコバルト(Ⅲ))	21679-46-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt, tris(3-bromo-2,4-pentanedionato-O,O')-, (OC-6-11)-	トリス(3-ブロモ-2,4-ペンタンジオナト-O,O')コバルト	15218-44-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt-acetate	コバルト-酢酸塩	5931-89-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate (6-), [[[(1,2-ethanediybis[nitriobis(methylene)]tetrakis[phosphonato]](6-)-N,N',O,O',O'',O''',O''''], [pentammonium hydrogen, (OC-6-21)-	[[[(1,2-エタンジイルビス[ニトリロビス(メチレン)]テトラビス[ホスホン酸]](6-)-N,N',O,O',O'',O''',O'''']コバルト酸(6-)五アンモニウム水素	68025-39-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate (6-), [[[(1,2-ethanediybis[nitriobis(methylene)]tetrakis[phosphonato]](8-)-N,N',O,O',O'',O''',O''''], [pentapotassium hydrogen, (OC-6-21)-	[[[(1,2-エタンジイルビス[ニトリロビス(メチレン)]テトラキス[ホスホン酸]](8-)-N,N',O,O',O'',O''',O'''']コバルト酸(6-)五カリウム水素	67924-23-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate (6-), [[[(1,2-ethanediybis[nitriobis(methylene)]tetrakis[phosphonato]](8-)-N,N',O,O',O'',O''',O''''], [pentasodium hydrogen, (OC-6-21)-	[[[(1,2-エタンジイルビス[ニトリロビス(メチレン)]テトラビス[ホスホン酸]](8-)-N,N',O,O',O'',O''',O'''']コバルト酸(6-)五ナトリウム水素	67969-67-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate (CoO21-), lithium	二酸化コバルトリチウム	12190-79-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [1-[[[5-(ethylsulfonyl)-2-hydroxyphenyl]azo]-2-naphthalenolato(2-)]][methyl[8-[[5-(ethylsulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-2-naphthalenyl]methylcarbamato(2-)]-, sodium	[1-[[[5-(エチルスルホニル)-2-ヒドロキシフェニル]アゾ]-2-ナフタレノート(Ⅱ)]]メチル[[8-[[5-(エチルスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-2-ナフタレニル]メチルカルバメート(Ⅱ)]コバルト酸(Ⅰ)ナトリウム	103241-62-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[1-[[[2-hydroxyphenyl]azo]-2-naphthalenolato(2-)]-, hydrogen, compound with 1-tridecanamine (1:1)	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]-[1-[[[2-ヒドロキシフェニル]アゾ]-2-ナフタレノート(2-)]コバルト酸(1-)水素または1-トリデカンアミン混合体(1:1)	70815-19-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[1-[[[2-hydroxy-4-nitrophenyl]azo]-2-naphthalenolato(2-)]-, hydrogen	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]-[1-[[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-2-ナフタレノート(2-)]コバルト酸(1-)水素	55668-56-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[1-[[[2-hydroxy-4-nitrophenyl]azo]-2-naphthalenolato(2-)]-, sodium	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]-[1-[[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-2-ナフタレノート(2-)]コバルト酸(1-)ナトリウム	73507-67-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[1-[[[2-hydroxy-5-nitrophenyl]azo]-2-naphthalenolato(2-)]-, hydrogen	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]-[1-[[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2-ナフタレノート(2-)]コバルト酸(1-)ナトリウム	52277-73-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[1-[[[2-hydroxy-5-nitrophenyl]azo]-2-naphthalenolato(2-)]-, sodium	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]-[1-[[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2-ナフタレノート(2-)]コバルト酸(1-)ナトリウム	73507-66-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]-, hydrogen	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]-[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)]コバルト酸(1-)水素	73324-02-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[4-hydroxy-3-[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)]-, hydrogen	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]-[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)水素	72845-76-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-(methylsulfonyl)phenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-[N-[7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]acetamidato(2-)]-, sodium	[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-(メチルスルホニル)フェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]-[N-[7-ヒドロキシ-8-[[2-ヒドロキシ-5-(メチルスルホニル)フェニル]アゾ]-1-ナフタレニル]アセチルアミド(2-)]コバルト酸(1-)ナトリウム	70236-41-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, hydrogen	フタロシアニンスルホン酸コバルト	30638-08-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, sodium	29H,31H-フタロシアニン-C-スルホン酸コバルト錯塩	52729-67-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobaltate(1-), [3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]][1-[[[2-hydroxy-4-nitrophenyl]azo]-2-naphthalenolato(2-)], hydrogen	[3-[[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)]][1-[[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-2-ナフタレノレート(2-)]コバルト酸(1-)水素	72928-77-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]][1-[[[2-hydroxy-5-nitrophenyl]azo]-2-naphthalenolato(2-)], hydrogen	[3-[[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)]][1-[[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2-ナフタレノレート(2-)]コバルト酸(1-)水素	72928-76-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [3-[[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]][N-[[7-hydroxy-8-[[2-hydroxy-5-[[methylamino]sulfonyl]phenyl]azo]-1-naphthalenyl]acetamidato(2-)], hydrogen	[3-[[[1-(4-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホン酸アミド(2-)]][N-[[7-ヒドロキシ-8-[[2-ヒドロキシ-5-[[メチルアミノ]スルホニル]フェニル]アゾ]-1-ナフタレニル]アセトアミダト(2-)]コバルト酸(1-)水素	68413-61-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [3-[[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]][N-[[7-hydroxy-8-[[2-hydroxy-5-[[methylamino]sulfonyl]phenyl]azo]-1-naphthalenyl]acetamidato(2-)], sodium	[3-[[[1-(4-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホン酸アミド(2-)]][N-[[7-ヒドロキシ-8-[[2-ヒドロキシ-5-[[メチルアミノ]スルホニル]フェニル]アゾ]-1-ナフタレニル]アセトアミダト(2-)]コバルト酸(1-)ナトリウム	74499-63-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [3-[[[5-chloro-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]][4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)], sodium	[3-[[[5-クロロ-2-ヒドロキシフェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホン酸アミド(2-)]][4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	72403-33-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [3-[[[5-chloro-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]][4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)], sodium	[3-[[[5-クロロ-2-ヒドロキシフェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホン酸アミド(2-)]][4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	72391-10-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)]][4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)], ammonium	[4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]][4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)アン	83864-24-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)]][4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)], sodium	ビス[4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]][4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	83817-76-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)]][4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)], sodium	[4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]][4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	72403-32-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [4-hydroxy-3-[[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)]][8-[[[2-hydroxyphenyl]azo]-2-naphthalenolato(2-)], hydrogen, compound with 3-[[[2-ethylhexyl]oxy]-1-propanamine (1:1)	[4-ヒドロキシ-3-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)]][8-[[[2-ヒドロキシフェニル]アゾ]-2-ナフタレン酸(2-)]コバルト酸(1-)、水素と3-[[[2-エチルヘキシル]-1-プロピルアミン]の混合物(1:1)	73297-17-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [6-amino-5-[[[2-hydroxy-4-nitrophenyl]azo]-N-(2-hydroxypropyl)-2-naphthalenesulfonamidato(2-)]][1-[[[5-chloro-2-hydroxyphenyl]azo]-2-naphthalenolato(2-)], sodium	[6-アミノ-5-[[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-N-(2-ヒドロキシプロピル)-2-ナフタレンスルホン酸アミド(2-)]][1-[[[5-クロロ-2-ヒドロキシフェニル]アゾ]-2-ナフタレン酸(2-)]コバルト酸(1-)ナトリウム	73195-17-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [C-(chlorosulfonyl)-29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, hydrogen	[C-(クロロスルホニル)-29H,31H-フタロシアニン-C-スルホン酸(3-)-N29,N30,N31,N32]コバルト酸(1-)水素	68213-72-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [N,N-bis(carboxymethyl)glycinate(3-)-N,O,O',O']-, hydrogen, (T-4)	[N,N-ビス(メチルカルボキシル)グリシン酸(3-)-N,O,O',O']コバルト酸(1-)水素	53108-50-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [N-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]][3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], hydrogen	[N-[[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-1-ナフタレニル]アセトアミダト(2-)]][3-[[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミダト(2-)]コバルト酸(1-)水素	68239-47-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [N-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]][3-[[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], sodium	[N-[[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-1-ナフタレニル]アセトアミダト(2-)]][3-[[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミダト(2-)]コバルト酸(1-)ナトリウム	68966-96-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), [N-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]][3-[[[4,5-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)], sodium	[N-[[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-1-ナフタレニル]アセトアミダト(2-)]][3-[[[4,5-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホンアミダト(2-)]コバルト酸(1-)ナトリウム	59487-93-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis(2,4-dihydro-4-[[2-hydroxy-4-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)), sodium	ビス(2,4-ジヒドロ-4-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-))コバルト酸(1-)ナトリウム	67486-73-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobaltate(1-), bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)], sodium	ビス[1-[(2-ヒドロキシ-4-ニトロフェニル)アゾ]-2-ナフタレン(2-)]コバルト(II)酸ナトリウム	64611-71-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)], hydrogen	ビス[1-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2-ナフタレン(2-)]コバルト酸(1-)水素	52277-69-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)], sodium	ビス[1-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-2-ナフタレン(2-)]コバルト酸(1-)ナトリウム	73297-09-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[1-[(2-hydroxyphenyl)azo]-2-naphthalenolato(2-)], sodium	ビス[1-[(2-ヒドロキシフェニル)アゾ]-2-ナフタレン(2-)]コバルト酸(1-)ナトリウム	75752-30-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)], hydrogen	ビス[1-[(5-クロロ-2-ヒドロキシフェニル)アゾ]-2-ナフタレン(2-)]コバルト酸(1-)水素	31586-88-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)], sodium	ビス[1-[(5-クロロ-2-ヒドロキシフェニル)アゾ]-2-ナフタレン(2-)]コバルト酸(1-)ナトリウム	18639-97-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-(3-chlorophenyl)-2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-3H-pyrazol-3-onato(2-)], hydrogen, compound with [1R-(1.alpha.,4a.beta.,10a.alpha.)]-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-ph	ビス[2-(3-クロロフェニル)-2,4-ジヒドロ-4-[[2-ヒドロキシ-5-(メチルスルホニル)フェニル]アゾ]-5-メチル-3H-ピラゾール-3-オナト(2-)]コバルト酸(1-)水素及び[1R-(1.alpha.,4a.beta.,10a.alpha.)]-1,2,3,4,4a,9,10,10a-オクタヒドロ-1,4a-ジメチル-7-(1-メチルエチル)-1-p hの混合物	20506-24-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-(3-chlorophenyl)-2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-3H-pyrazol-3-onato(2-)], sodium	ビス[2-(3-クロロフェニル)-2,4-ジヒドロ-4-[[2-ヒドロキシ-5-(メチルスルホニル)フェニル]アゾ]-5-メチル-3H-ピラゾール-3-オナト(2-)]コバルト酸(1-)ナトリウム	70236-44-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2,4-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)], hydrogen	ビス[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]コバルト酸(1-)水素	52256-38-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2,4-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)], hydrogen, compound with cyclohexanamine (1:1)	ビス[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]コバルト(1-)水素もしくはシクロヘキサミン(1:1)の混合物	71566-27-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2,4-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)], sodium	ビス[2,4-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]コバルト酸(1-)ナトリウム	71839-88-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2,4-dinitro-6-[[2-(phenylamino)-1-naphthalenyl]azo]phenolato(2-)], sodium	ビス[2,4-ジニトロ-6-[[2-(フェニルアミノ)-1-ナフタレニル]アゾ]フェネーラト(2-)]コバルト酸(1-)ナトリウム	125378-91-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-amino-1-naphthalenyl)azo]-5-nitrophenolato(2-)], hydrogen	ビス[2-[(2-アミノ-1-ナフタレニル)アゾ]-5-ニトロフェニル(2-)]コバルト酸(1-)水素	71566-34-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-amino-1-naphthalenyl)azo]-5-nitrophenolato(2-)], sodium	ビス[2-[(2-アミノ-1-ナフタレニル)アゾ]-5-ニトロフェニル(2-)]コバルト酸(1-)ナトリウム	68966-98-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-hydroxy-4-nitrophenyl)azo]-1-naphthalenolato(2-)], hydrogen	ビス[2-[(2-ヒドロキシ-4-ニトロフェニル)アゾ]-1-ナフタレン(2-)]コバルト酸(1-)水素	6421-64-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-hydroxy-4-nitrophenyl)azo]-3-oxo-N-phenylbutanamidato(2-)], sodium	ビス[2-[(2-ヒドロキシ-4-ニトロフェニル)アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト酸(1-)ナトリウム	81361-02-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutanamidato(2-)], hydrogen	ビス[2-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト酸(1-)水素	13011-62-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutanamidato(2-)], hydrogen, compound with 1-butanamine (1:1)	ビス[2-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト酸(1-)水素と1-ブチルアミンの混合物(1:1)	72797-14-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutanamidato(2-)], sodium	ビス[2-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト酸(1-)ナトリウム	71566-26-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-hydroxy-5-[[phenylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)], ammonium	ビス[2-[[2-ヒドロキシ-5-[[フェニルアミノ)スルホニル]フェニル]アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト酸(1-)アンモニウム	125408-78-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[(2-hydroxy-5-[[phenylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)], sodium	ビス[2-[[2-ヒドロキシ-5-[[フェニルアミノ)スルホニル]フェニル]アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト酸(1-)ナトリウム	71562-83-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[[4-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)], sodium	ビス[2-[[4-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト酸(1-)ナトリウム	66104-83-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)], hydrogen	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)]コバルト酸(1-)水素	72928-91-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)], sodium	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミダト(2-)], ナトリウム	72496-88-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-chlorophenyl)-3-oxobutan amidato(2-)], sodium	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-N-(2-クロロフェニル)-3-オキソブタンアミダト(2-)], コバルト酸(1-)ナトリウム	34735-28-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-ethylhexyl)-3-oxobutanamidato(2-)], sodium	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-N-(2-エチルヘキシル)-3-オキソブタンアミダト(2-)], コバルト酸(1-)ナトリウム	72403-31-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-[[4-[[5-chloro-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)], sodium	ビス[2-[[4-[[5-クロロ-2-ヒドロキシフェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	74082-15-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-chloro-5-hydroxy-4-[[2-hydroxy-1-naphthalenyl]azo]-N-methylbenzenesulfonamidato(2-)], hydrogen, compound with cyclohexanamine (1:1)	ビス[2-クロロ-5-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフタレニル]アゾ]-N-メチルベンゼンスルホン酸アミド(2-)], コバルト酸(1-)、水素とシクロヘキサミンの混合物(1:1)	71839-87-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[2-chloro-5-hydroxy-4-[[2-hydroxy-1-naphthalenyl]azo]-N-methylbenzenesulfonamidato(2-)], sodium	ビス[2-クロロ-5-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフタレニル]アゾ]-N-メチルベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	70179-69-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], hydrogen	ビス[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)], コバルト酸(1-)水素	68568-52-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], sodium, (OC-6-22)-	ビス[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	34664-47-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxy-N-(1-methylethyl)benzenesulfonamidato(2-)], hydrogen, compound with 2-propanamine (1:1)	ビス[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-(1-メチルエチル)ベンゼンスルホン酸アミド(2-)], コバルト酸(1-)、水素と2-プロピルアミンの混合物(1:1)	71839-74-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxy-N-[3-(1-methylethoxy)propyl]benzenesulfonamidato(2-)], sodium	ビス[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-[3-(1-メチルエトキシ)プロピル]ベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	72479-33-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[8-hydroxy-5-quinolinyl]azo]benzenesulfonato(2-)], sodium	ビス[3-[[8-ヒドロキシ-5-キノリニル]アゾ]ベンゼンスルホン酸(2-)], コバルト酸(1-)ナトリウム	72905-57-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[1-(2,5-dichlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], sodium	ビス[3-[[1-(2,5-ジクロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	75214-67-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[1-(3-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)], sodium	ビス[3-[[1-(3-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	71701-14-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)], hydrogen	ビス[3-[[1-(4-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホン酸アミド(2-)], コバルト酸(1-)水素	67952-74-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)], sodium	ビス[3-[[1-(4-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	71566-39-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[4,5-dihydro-3-methyl-1-(4-methylphenyl)-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)], sodium	ビス[3-[[4,5-ジヒドロ-3-メチル-1-(4-メチルフェニル)-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-メチルベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	70281-40-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[3-[[4-[[5-chloro-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)], sodium	ビス[3-[[4-[[5-クロロ-2-ヒドロキシフェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホン酸アミド(2-)], コバルト酸(1-)ナトリウム	72403-34-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[[2-hydroxy-1-naphthalenyl]amino]-N-(3-methoxypropyl)benzenesulfonamidato(2-)], sodium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル]アミノ]-N-(3-メトキシプロピル)ベンゼンスルホン酸アミド(2-)], N3,O3,O4, コバルト酸(1-)ナトリウム	71735-52-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)], ammonium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)], コバルト酸(1-)アンモニウム	63971-70-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[[2-hydroxy-1-naphthalenyl]azo]benzenesulfonamidato(2-)], hydrogen	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル]アゾ]ベンゼンスルホン酸アミド(2-)], コバルト酸	50525-57-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, hydrogen, compound with 2-propanamine (1:1)	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル)アゾ]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)水素と2-プロピルアミンの混合物(1:1)	71839-84-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, lithium	ビス[4-(ヒドロキシ-k-0)-3-[[2-(ヒドロキシ-k-0)-1-ナフチレニル)アゾ-k-N1]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)リチウム	125252-57-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル)アゾ]ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	58302-43-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-(1-methylethyl)benzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル)アゾ]-N-(1-メチルエチル)ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	72391-09-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-(2-methoxyethyl)benzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフチレニル)アゾ]-N-(2-メトキシエチル)ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	70247-76-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-(3-methoxypropyl)benzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル)アゾ]-N-(3-メトキシプロピル)ベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	71735-61-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato(2-)]-, ammonium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル)アゾ]-N-メチルベンゼンスルホン酸アミド(2-)]コバルト酸(1-)アンモニウム	83847-06-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato(2-)]-, lithium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル)アゾ]-N-メチルベンゼンスルホン酸アミド(2-)]コバルト酸(1-)リチウム	83804-08-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフタレニル)アゾ]-N-メチルベンゼンスルホン酸アミド(2-)]コバルト酸(1-)ナトリウム	83804-07-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[[5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]benzenesulfonamide, -dioxidato(2-)]-, ammonium	ビス[4-ヒドロキシ-3-[[5-ヒドロキシナフト[2,1-d]-1,3-オキサチオール-4-イル)アゾ]ベンゼンスルホンアミド-ジオキシダト(2-)]コバルト酸(1-)アンモニウム	83864-23-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[4-hydroxy-3-[[5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]benzenesulfonamide, -dioxidato(2-)]-, sodium	ビス[4-ヒドロキシ-3-[[5-ヒドロキシナフト[2,1-d]-1,3-オキサチオール-4-イル)アゾ]ベンゼンスルホンアミド-ジオキシダト(2-)]コバルト酸(1-)ナトリウム	83817-79-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[5-[[5-chloro-2-hydroxyphenyl)azo]-6-hydroxy-N-(2-hydroxyethyl)-N-methyl-2-naphthalenesulfonamidato(2-)]-, sodium	ビス[5-[[5-クロロ-2-ヒドロキシフェニル)アゾ]-6-ヒドロキシ-N-(2-ヒドロキシエチル)-N-メチル-2-ナフトレニル)ベンゼンスルホンアミド(2-)]コバルト酸(1-)ナトリウム	70236-43-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[6-amino-5-[[2-hydroxy-4-nitrophenyl)azo]-N-methyl-2-naphthalenesulfonamidato(2-)]-, sodium	ビス[6-アミノ-5-[[2-ヒドロキシ-4-ニトロフェニル)アゾ]-N-メチル-2-ナフトレニル)ベンゼンスルホンアミド(2-)]コバルト酸(1-)ナトリウム	70236-59-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[[hydrogen 3-hydroxy-4-[[2-hydroxy-1-naphthyl)azo]-7-nitro-1-naphthalenesulfonato(2-)]-	ビス[3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフトレニル)アゾ]-7-ニトロ-1-ベンゼンスルホン酸(2-)]コバルト(1-)	26921-01-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[methyl 8-[[4-(aminosulfonyl)-2-hydroxy-5-methoxyphenyl)azo]-7-hydroxy-1-naphthalenyl]carbamatato(2-)]-, sodium	ビス[メチル8-[[4-(アミノスルホニル)-2-ヒドロキシ-5-メトキシフェニル)アゾ]-7-ヒドロキシ-1-ナフトレニル)カルバミン酸(2-)]コバルト酸(1-)ナトリウム	73507-63-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[N-(2-chlorophenyl)-2-[[2-hydroxy-5-[[methylamino)sulfonyl]phenyl]azo]-3-oxobutanamidato(2-)]-, sodium	ビス[N-(2-クロロフェニル)-2-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル)アゾ]-3-オキソブタンアミダト(2-)]コバルト酸(1-)ナトリウム	70247-73-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[N-(2-chlorophenyl)-2-[[2-hydroxy-5-[[methylamino)sulfonyl]phenyl]azo]-3-oxobutanamidato(2-)]-, sodium	ビス[N-(2-クロロフェニル)-2-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル)アゾ]-3-オキソブタンアミダト(2-)]コバルト酸(1-)ナトリウム	70247-74-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[N-(2-chlorophenyl)-2-[[2-hydroxy-5-[[methylamino)sulfonyl]phenyl]azo]-3-oxobutanamidato(2-)]-, hydrogen	ビス[N-(2-クロロフェニル)-2-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル)アゾ]-3-オキソブタンアミダト(2-)]コバルト酸(1-)水素	55963-70-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[N-(2-hydroxy-3-[[2-hydroxy-5-nitrophenyl)azo]-5-methylphenyl]acetamidato(2-)]-, sodium	ビス[N-(2-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチルフェニル)アセタミダト(2-)]コバルト酸(1-)ナトリウム	71735-59-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[N-(7-hydroxy-8-[[2-hydroxy-5-[[methylamino)sulfonyl]phenyl]azo]-1-naphthalenyl]acetamidato(2-)]-, hydrogen, compound with 2-propanamine (1:1)	ビス[N-(7-ヒドロキシ-8-[[2-ヒドロキシ-5-[[メチルアミノ)スルホニル]フェニル)アゾ]-1-ナフトレニル)アセタミダト(2-)]コバルト酸(1-)水素と2-プロピルアミンの混合物(1:1)	71839-76-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(1-), bis[N-(8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]-, sodium	ビス[N-(8-[[5-(アミノスルホニル)-2-ヒドロキシフェニル)アゾ]-7-ヒドロキシ-1-ナフトレニル)アセタミダト(2-)]コバルト酸(1-)ナトリウム	68966-95-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [[N,N'-1,2-ethanediy]bis[N-(carboxymethyl)glycinate]](4-), N,N',O,O',ON,ON', (OC-6-21)-	エチレンジアミン四酢酸コバルト	14931-83-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobaltate(2-), [1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)], disodium	[1-[(5-クロロ-2-ヒドロキシフェニル)アゾ]-2-ナフタレノート(2-)]][3-ヒドロキシ-4-[(2-ヒドロキシ-1-ナフタレニル)アゾ]-7-ニトロ-1-ナフタレンスルホン酸(3-)] コバルト酸(2-) 二ナトリウム	125378-88-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)], sodium hydrogen	[1-[(5-クロロ-2-ヒドロキシフェニル)アゾ]-2-ナフタレン酸(2-)]][3-ヒドロキシ-4-[(2-ヒドロキシ-1-ナフタレニル)アゾ]-7-ニトロ-1-ナフタレンスルホン酸(3-)] コバルト酸(2-) ナトリウム水素	71243-97-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]][2-[[[4-hydroxy-3-[(2-phenylamino)-1-naphthalenyl]azo]phenyl]sulfonylamino]benzoato(3-)], disodium	[2, 4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]][2-[[[4-ヒドロキシ-3-[[2-(フェニルアミノ)-1-ナフタレニル]アゾ]フェニル]スルホンイル]アミノ]安息香酸(3-)] コバルト酸(2-) 二ナトリウム	82556-13-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]][2-[[[4-hydroxy-3-[(2-phenylamino)-1-naphthalenyl]azo]phenyl]sulfonylamino]benzoato(3-)], sodium hydrogen	[2, 4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]][2-[[[4-ヒドロキシ-3-[[2-(フェニルアミノ)-1-ナフタレニル]アゾ]フェニル]スルホンイル]アミノ]安息香酸(3-)] コバルト酸(2-) ナトリウム水素	73455-76-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)], dihydrogen	[2, 4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]][3-ヒドロキシ-4-[(2-ヒドロキシ-1-ナフタレニル)アゾ]-7-ニトロ-1-ナフタレンスルホン酸(3-)] コバルト酸(2-) 二水素	72987-06-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)], dihydrogen, compound with 2,2'-iminobis[ethanol] (1:2)	[2, 4-ジヒドロ-4-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]][3-ヒドロキシ-4-[(2-ヒドロキシ-1-ナフタレニル)アゾ]-7-ニトロ-1-ナフタレンスルホン酸(3-)] コバルト酸(2-) ナトリウム水素と2,2'-イミノビスエタノールの混合物(1:2)	72987-07-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [2,4-dinitro-6-[[2-(phenylamino)-1-naphthalenyl]azo]phenolato(2-)]][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)], sodium hydrogen	[2, 4-ジニトロ-6-[[2-(フェニルアミノ)-1-ナフタレニル]アゾ]フェネーラ酸(2-)]][3-ヒドロキシ-4-[(2-ヒドロキシ-1-ナフタレニル)アゾ]-7-ニトロ-1-ナフタレンスルホン酸(3-)] コバルト酸(2-) ナトリウム水素	72102-52-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-ethylhexyl)-3-oxobutanamidato(2-)]][4-[[1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphthalenyl]amino]benzenesulfonato(3-)], dipotassium	[2-[[5-(アミノスルホンイル)-2-ヒドロキシフェニル]アゾ]-N-(2-エチルヘキシル)-3-オキソブタンアミド(2-)]][4-[[1-[(2-ヒドロキシ-3,5-ジニトロフェニル)アゾ]-2-ナフタレニル]アミノ]ベンゼンスルホン酸(3-)] コバルト酸(2-) ニカリウム	68928-31-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [29H,31H-phthalocyanine-C, C-disulfonato(4-)-N29,N30,N31,N32], dihydrogen	フタロシアニンジスルフォナトコバルト	29383-29-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [29H,31H-phthalocyanine-C, C-disulfonato(4-)-N29,N30,N31,N32], disodium	フタロシアニンジスルホン酸コバルト(II) 二ナトリウム	61045-13-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), [6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-N-methyl-2-naphthalenesulfonamidato(2-)]][6-amino-5-[[2-hydroxy-4-nitrophenyl]azo]-2-naphthalenesulfonato(3-)], disodium	[6-アミノ-5-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-N-メチル-2-ナフタレンスルホン酸アミド(2-)]][6-アミノ-5-[[2-ヒドロキシ-4-ニトロフェニル]アゾ]-2-ナフタレンスルホン酸(3-)] コバルト酸(2-) 二ナトリウム	75314-27-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)], dihydrogen	ビス[2-[[5-(アミノスルホンイル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミド(2-)]コバルト(2-) 二水素	12715-61-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)], dilithium	ビス[2-[[5-(アミノスルホンイル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミド(2-)]コバルト酸(2-) リチウム	67906-22-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)], disodium	ビス[2-[[5-(アミノスルホンイル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブタンアミド(2-)]コバルト酸(2-) 二ナトリウム	75522-91-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], dilithium, (OC-6-22')	ビス[3-[[4, 5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)] コバルト酸(2-) リチウム	67906-23-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], disodium, (OC-6-22')	ビス[3-[[4, 5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)] コバルト酸(2-) 二ナトリウム	72208-07-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], lithium sodium, (OC-6-22')	ビス[3-[[4, 5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)] コバルト酸(2-) リチウムナトリウム	75557-21-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), bis[3-[[1-(3-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)], disodium	ビス[3-[[1-(3-クロロフェニル)-4, 5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)] コバルト酸(2-) 二ナトリウム	70529-03-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(2-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)], disodium	ビス[4-ヒドロキシ-3-[(2-ヒドロキシ-1-ナフタレニル)アゾ]ベンゼンスルホン酸アミド(2-)] コバルト酸(2-) 二ナトリウム	71060-75-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), [4-amino-3-[(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonato(3-)]][5-amino-6-[(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonato(3-)], trisodium	[4-アミノ-3-[[2-ヒドロキシ-3,5-ジニトロフェニル]アゾ]-1-ナフタレンスルホン酸(3-)]][5-アミノ-6-[[2-ヒドロキシ-3,5-ジニトロフェニル]アゾ]-1-ナフタレンスルホン酸(3-)] コバルト酸(3-) 三ナトリウム	82457-28-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobaltate(3-), [N,N-bis(phosphonomethyl)glycinate(5-)], triammonium, (T-4)-	[N,N -ビス( ホスホン酸メチル)グリシン酸(5-)]コバルト酸(3-)三アンモニウム	67968-65-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), [N,N-bis(phosphonomethyl)glycinate(5-)], tripotassium, (T-4)-	[N,N -ビス( ホスホン酸メチル)グリシン酸(5-)]コバルト酸(3-)三カリウム	63597-33-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), [N,N-bis(phosphonomethyl)glycinate(5-)], trisodium, (T-4)-	[N,N -ビス( ホスホン酸メチル)グリシン酸(5-)]コバルト酸(3-)三ナトリウム	67968-66-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[2-[[[3-[[1-[[[2-chlorophenyl]amino]carbonyl]-2-oxopropyl]azo]-4-hydroxyphenyl]sulfonyl]amino]benzoato(3-)], trisodium	ビス[2-[[[3-[[1-[[[2-クロロフェニル]アミノ]カルボニル]-2-オキソプロピル]アゾ]-4-ヒドロキシフェニル]スルホニル]アミノ]安息香酸(3-)]コバルト酸(3-)三ナトリウム	73612-41-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)], trisodium	ビス[2-[[[4-ヒドロキシ-3-[[2-(フェニルアミノ)-1-ナフチレンル]アゾ]フェニル]スルホニル]アミノ]安息香酸(3-)]コバルト酸(3-)三ナトリウム	82556-12-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)], sodium dihydrogen	ビス[2-[[[4-ヒドロキシ-3-[[2-(フェニルアミノ)-1-ナフチレンル]アゾ]フェニル]スルホニル]アミノ]安息香酸(3-)]コバルト酸(3-)二ナトリウム二水素	72829-33-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-oxo-1-[[phenylamino]carbonyl]propyl]azo]phenyl]sulfonyl]amino]benzoato(3-)], sodium dihydrogen	ビス[2-[[[4-ヒドロキシ-3-[[2-オキシ-1-[[フェニルアミノ]カルボニル]プロピル]アゾ]フェニル]スルホニル]アミノ]ベンゼン酸(3-)]コバルト酸(3-)二ナトリウム二水素	73018-84-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[2-hydroxy-5-nitro-3-[[2-oxo-1-[[phenylamino]carbonyl]propyl]azo]benzenesulfonate(3-)], sodium dihydrogen	ビス[2-ヒドロキシ-5-ニトロ-3-[[2-オキシ-1-[[フェニルアミノ]カルボニル]プロピル]アゾ]ベンゼンスルホン酸(3-)]コバルト酸(3-)二ナトリウム二水素	73507-73-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[3-hydroxy-4-[[2-hydroxy-1-naphthalenyl]azo]-7-nitro-1-naphthalenesulfonate(3-)], trisodium	ビス[3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフチレンル]アゾ]-7-ニトロ-1-ナフチレンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	125378-89-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[3-hydroxy-4-[[2-hydroxy-1-naphthalenyl]azo]-7-nitro-1-naphthalenesulfonate(3-)], trihydrogen	ビス[3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフチレンル]アゾ]-7-ニトロ-1-ナフチレンスルホン酸(3-)]コバルト酸(3-)三水素	72797-08-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[3-hydroxy-4-[[2-hydroxy-1-naphthalenyl]azo]-7-nitro-1-naphthalenesulfonate(3-)], trihydrogen, compound with 2,2'-iminobis[ethanol] (1:3)	ビス[3-ヒドロキシ-4-[[2-ヒドロキシ-1-ナフチレンル]アゾ]-7-ニトロ-1-ナフチレンスルホン酸(3-)]コバルト酸(3-)、三水素と2,2'-イミノビスエタノールの混合物(1:3)	72797-09-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[3-hydroxy-7-nitro-4-[[1,2,3,4-tetrahydro-2,4-dioxo-3-quinolinyl]azo]-1-naphthalenesulfonate(3-)], trisodium	ビス[3-ヒドロキシ-7-ニトロ-4-[[1,2,3,4-テトラヒドロ-2,4-ジオキソ-3-キノリニル]アゾ]-1-ナフチレンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	74196-11-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[4-[[2-[[2-(2-hydroxy-5-nitrophenyl)azo]-1,3-dioxobutyl]amino]-5-methoxy-2-methylbenzenesulfonate(3-)], trihydrogen	ビス[4-[[2-[[2-(2-ヒドロキシ-5-ニトロフェニル)アゾ]-1,3-ジオキソブチル]アミノ]-5-メトキシ-2-メチルベンゼンスルホン酸(3-)]コバルト酸(3-)三水素	82598-42-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[4-[[4-[[[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxyphenyl]sulfonyl]amino]phenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonate(3-)], trisodium	ビス[4-[[4-[[[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシフェニル]スルホニル]アミノ]フェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	75234-42-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[4-[[4-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]phenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonate(3-)], trisodium	ビス[4-[[4-[[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]フェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	75214-72-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[5-chloro-2-hydroxy-3-[[2-oxo-1-[[phenylamino]carbonyl]propyl]azo]benzenesulfonate(3-)], trisodium	ビス[5-クロロ-2-ヒドロキシ-3-[[2-オキシ-1-[[フェニルアミノ]カルボニル]プロピル]アゾ]ベンゼンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	73324-01-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[6-amino-5-[[2-(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonate(3-)], sodium dihydrogen	ビス[6-アミノ-5-[[2-(2-ヒドロキシ-3,5-ジニトロフェニル)アゾ]-1-ナフチレンスルホン酸(3-)]コバルト酸(3-)二ナトリウム二水素	73297-10-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), bis[6-amino-5-[[2-(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenesulfonate(3-)], trisodium	ビス[6-アミノ-5-[[2-(2-ヒドロキシ-4-ニトロフェニル)アゾ]-2-ナフチレンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	77630-54-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), hexakis(cyano-C)-, cobalt(2+)(2:3), (OC-6-11)-	ヘキサキシアノコバルト酸コバルト(Ⅱ)(2:3)	14123-08-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), hexakis(cyano-C)-, zinc (2:3)(OC-6-11)-	ヘキサキシアノコバルト酸(3-)亜鉛(2:3)三ナトリウム	14049-79-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), hexakis(nitrito-N)-, tripotassium, (OC-6-11)-	ヘキサニトロコバルト(Ⅲ)酸カリウム	13782-01-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(3-), hexakis(nitrito-O)-, trisodium(OC-6-11)-	ヘキサキシアニトコバルト酸(3-)三ナトリウム	14649-73-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Cobaltate(3-), tris[6-hydroxy-5-nitroso-2-naphthalenesulfonato(2-)], trisodium	トリス[ 6-ヒドロキシ-5-ニトロ-2-ナフタレンスルホン酸(2-) ] コバルト酸(3-) 三ナトリウム	67815-64-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(4-), [[[[nitrioltris(methylene)]tris(phosphonato)](6-)-N,OP,OP,OP]], tetrapotassium, (T-4)-	[[[[ニトリオリス(メチレン)]トリス[ホスホン酸]](6-)-N,OP,OP,OP]] コバルト酸(4-) 四カリウム	63588-34-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(4-), [[[[nitrioltris(methylene)]tris(phosphonato)](6-)-N,OP,OP,OP]], tetrasodium, (T-4)-	[[[[ニトリオリス(メチレン)]トリス[ホスホン酸]](6-)-N,OP,OP,OP]] コバルト酸(4-) 四ナトリウム	68000-01-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(4-), [[[[nitrioltris(methylene)]tris(phosphonato)](6-)-N,OP,OP,OP]], triammonium hydrogen, (T-4)-	[[[[ニトリオリス(メチレン)]トリス[ホスホン酸]](6-)-N,OP,OP,OP]] コバルト酸(4-) 四アンモニウム水素	67968-64-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(4-), [29H,31H-phthalocyanine-2,9,16,23-tetrasulfonato(6-)-N29,N30,N31,N32], tetrahydrogen, (SP-4-1)-	[29H,31H-フタロシアニン-2,9,16, 23-テトラスルホン酸(6-)-N29,N30,N31,N32] 四水素コバルト酸(4-)	14285-59-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(4-), bis[2-[[[3-[[1-[[2-chlorophenyl]amino]carbonyl]-2-oxopropyl]azo]-4-hydroxyphenyl]sulfonyl]amino]benzoato(3-)], tetrasodium	ビス[2-[[[3-[[1-[[2-クロロフェニル]アミノ]カルボニル]-2-オキソプロピル]アゾ]-4-ヒドロキシフェニル]スルフォニル]アミノ]安息香酸(3-) ] コバルト酸(4-) 四ナトリウム	70851-34-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(4-), hexakis(cyano-C), tetrapotassium, (OC-6-11)-	シアン化コバルトカリウム錯塩	14564-70-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(4-), hexakis(cyano-C), tetrasodium, (OC-6-11)-	ヘキサキシアノコバルト酸(4-) 四ナトリウム (炭素数6-11)	14217-00-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[4-[[[5-chloro-2,6-difluoro-4-pyrimidinyl]amino]-2-[[[4-chloro-6-[4-[4,5-dihydro-4-[[2-hydroxy-5-sulfonyl]azo]-3-methyl-5-oxo-1H-pyrazol-1-yl]phenyl]amino]-1,3,5-triazin-2-yl]amino]benzenesulfonato(4-)], pentasodium	ビス[4-[[[5-クロロ2, 6-ジフルオロ-4-ピリミジンル]アミノ]-2-[[[4-クロロ-6-[4-[4,5-ジヒドロ-4-[[2-ヒドロキシ-5-スルホニル]アゾ]-3-メチル-5-オキソ-1H-ピラゾール-1-イル]フェニル]アミノ]-1,3,5-トリアジン-2-イル]アミノ]ベンゼンスルホン酸(4-)] ] コバルト酸(5-) 五ナトリウム	83417-32-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[4-[[[6-[[4-chloro-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-3-hydroxy-7-nitro-1-naphthalenesulfonato(4-)], pentasodium	ビス[4-[[[6-[[4-クロロ-6-(フェニルアミノ)-1,3,5-トリアジン-2-イル]アミノ]-1-ヒドロキシ-3-スルホ-2-ナフタレニル]アゾ]-3-ヒドロキシ-7-ニトロ-1-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 五ナトリウム	75284-36-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[4-[[[4-[[[3-[[4,5-dihydro-5-oxo-1-(4-sulfonyl)phenyl]-1H-pyrazol-4-yl]azo]-4-hydroxyphenyl]sulfonyl]amino]phenyl]azo], 4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonato(4-)], pentasodium	ビス[4-[[[4-[[[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-(4-スルホフェニル)-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシフェニル]スルホニル]アミノ]フェニル]アゾ]-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼンスルホン酸(4-)] ] コバルト酸(5-) 五ナトリウム	75214-71-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[4-hydroxy-3-[[2-hydroxy-5-nitrophenyl]azo]-5-[[2,5,6-trichloro-4-pyrimidinyl]amino]-2,7-naphthalenedisulfonato(4-)], pentasodium	フェニル]アゾ]-5-[[[2,5,6-トリクロロ-4-ピリミジンル]アミノ]-2,7-ナフタレンジスルホン酸(4-)] ] ビス[4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-5-[[2,5,6-トリクロロ-4-ピリミジンル]アミノ]-2,7-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 五ナトリウム	74196-19-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[5-[[[4,6-dichloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[2-hydroxy-5-nitrophenyl]azo]-2,7-naphthalenedisulfonato(4-)], pentasodium	ビス[5-[[[4,6-ジクロロ-1,3,5-トリアジン-2-イル]アミノ]-4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2,7-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 五ナトリウム	104815-53-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[5-[[[4-amino-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[2-hydroxy-5-nitrophenyl]azo]-2,7-naphthalenedisulfonato(4-)], pentasodium	ビス[5-[[[4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル]アミノ]-4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2,7-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 五ナトリウム	79817-88-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[5-[[[4-amino-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[2-hydroxy-5-nitrophenyl]azo]-2,7-naphthalenedisulfonato(4-)], tetrapotassium sodium	ビス[5-[[[4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル]アミノ]-4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2,7-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 四カリウム一ナトリウム	73038-30-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[5-[[[4-amino-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[2-hydroxy-5-nitrophenyl]azo]-2,7-naphthalenedisulfonato(4-)], tetrasodium hydrogen	ビス[5-[[[4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル]アミノ]-4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2,7-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 四ナトリウム一水素	70776-55-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[5-[[[4-chloro-6-methoxy-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[2-hydroxy-5-nitrophenyl]azo]-2,7-naphthalenedisulfonato(4-)], tetrasodium hydrogen	ビス[5-[[[4-クロロ-6-メトキシ-1,3,5-トリアジン-2-イル]アミノ]-4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2,7-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 四ナトリウム一水素	68132-93-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[6-[[[5-chloro-2,6-difluoro-4-pyrimidinyl]amino]-4-hydroxy-3-[[2-hydroxy-5-nitro-3-sulfonyl]azo]-2-naphthalenesulfonato(4-)], tetrapotassium sodium	ビス[6-[[[5-クロロ-2,6-ジフルオロ-4-ピリミジンル]アミノ]-4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロ-3-スルホニル]アゾ]-2-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 四カリウム一ナトリウム	74196-12-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[6-amino-5-[[2-hydroxy-5-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]-1-naphthalenesulfonato(4-)], potassium sodium	ビス[6-アミノ-5-[[2-ヒドロキシ-5-[[2-(スルホキシエチル)スルホニル]フェニル]アゾ]-1-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 五カリウム一ナトリウム	72269-32-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobaltate(5-), bis[7-hydroxy-8-[[2-hydroxy-5-nitro-3-sulfonyl]azo]-6-[[2,5,6-trichloro-4-pyrimidinyl]amino]-2-naphthalenesulfonato(4-)], pentasodium	ビス[7-ヒドロキシ-8-[[2-ヒドロキシ-5-ニトロ-3-スルホニル]アゾ]-6-[[2,5,6-トリクロロ-4-ピリミジンル]アミノ]-2-ナフタレンスルホン酸(4-)] ] コバルト酸(5-) 五ナトリウム	74196-13-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
Cobaltate(7-), [5-[[[4-chloro-6-[[[5-[[[5-chloro-2,6-difluoro-4-pyrimidinyl]amino]-2-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[[2-hydroxy-5-sulfophenyl]azo]-2,7-naphthalenedisulfonato(6-)]][4-[[[5-chloro-2,6-difluoro-4-pyrimidinyl]amino]-2-[[[5-[[[4-hydroxy-3-[[[2-hydroxy-5-sulfophenyl]azo]-2,7-naphthalenedisulfonato(5-)]][3-phosphonophenyl]amino]-2-naphthalenesulfonato(5-)]], disodium pentahydrogen	ビス[4-ヒドロキシ-5-ニトロフェニル]アゾ]-7-[[[3-ホスホン酸フェニル]アミノ]-2-ナフタレンスルホン酸(5-)]コバルト酸(7-)ニナトリウム五水素	83417-33-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobaltate(7-), bis[4-hydroxy-3-[[[2-hydroxy-5-nitrophenyl]azo]-7-[[[3-phosphonophenyl]amino]-2-naphthalenesulfonato(5-)]], disodium pentahydrogen	ビス[4-ヒドロキシ-5-ニトロフェニル]アゾ]-7-[[[3-ホスホン酸フェニル]アミノ]-2-ナフタレンスルホン酸(5-)]コバルト酸(7-)ニナトリウム五水素	69898-68-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobaltate(7-), bis[4-hydroxy-5-[[[2-hydroxy-1-naphthalenyl]azo]-3-[[[2-hydroxy-3-nitro-5-sulfophenyl]azo]-2,7-naphthalenedisulfonato(5-)]], heptasodium	ビス[4-ヒドロキシ-5-[[[2-ヒドロキシ-1-ナフタレニル]アゾ]-3-[[[2-ヒドロキシ-3-ニトロ-5-スルホフェニル]アゾ]-2,7-ナフタレンジスルホン酸(5-)]コバルト酸(7-)セナトリウム	74196-18-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobaltate(8-), bis[4-hydroxy-3-[[[2-hydroxy-5-nitrophenyl]azo]-7-[[[3-phosphonophenyl]amino]-2-naphthalenesulfonato(5-)]], tetraammonium tetrahydrogen	ビス[4-ヒドロキシ-3-[[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-7-[[[3-ホスホン酸フェニル]アミノ]-2-ナフタレンスルホン酸(5-)]コバルト酸(8-)四アンモニウム四水素	70833-34-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobaltate(9-), bis[5-[[[4-chloro-6-[[[5-[[[5-chloro-2,6-difluoro-4-pyrimidinyl]amino]-2-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[[2-hydroxy-5-sulfophenyl]azo]-2,7-naphthalenedisulfonato(6-)]], nonasodium	ビス[5-[[[4-クロロ-6-[[[5-[[[5-クロロ-2,6-ジフルオロ-4-ピリミジニル]アミノ]-2-スルホフェニル]アミノ]-1,3,5-トリアジン-2-イル]アミノ]-4-ヒドロキシ-3-[[[2-ヒドロキシ-5-スルホフェニル]アゾ]-2,7-ナフタレンジスルホン酸(6-)]コバルト(9-)九ナトリウム	83417-34-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobalt-dinitrate	硝酸コバルト(Ⅱ)	10141-05-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		●	
Cobaltocene	ビス(シクロペンタジエニル)コバルト(Ⅱ)	1277-43-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobaltocenium hexafluorophosphate(1-)	六フッ化リン酸コバルト	12427-42-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobaltocenium, (T-4)-tetrachlorocobaltate(2-)(2:1)	コバルトセニウム, (T-4) -テトラクロロコバルト酸塩(2-) (2:1)	11077-19-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobaltous bromide	臭化コバルト(Ⅱ)	7789-43-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cobaltous chloride	塩化コバルト	7646-79-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D	Mandatory																	●	
Cobaltous sulfamate	硫酸コバルト	14017-41-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Cyclohexanebutanoic acid, cobalt(2+) salt	シクロヘキサンプタノール酸コバルト(Ⅱ)塩	38582-17-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Di(acetato-O)(1,4-diazabicyclo[2.2.2]octane-N1)cobalt	ジ(アセテート-O)(1,4-ジアザビシクロ[2.2.2]オクタ-N1)コバルト	68239-55-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Di-μ-carbonyltetracarboxylbis(triphenylphosphine)dicoalt	ジ-μ-カルボニルテトラカルボニルビス(トリフェニルホスフィン)ニコバルト	24212-54-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
tetraammonium pentahydrogen bis[4-hydroxy-3-[[[2-hydroxy-5-nitrophenyl]azo]-7-[[[3-phosphonophenyl]amino]-2-naphthalenesulfonato(5-)]], cobaltate(7-)	ビス[4-ヒドロキシ-3-[[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-7-[[[3-ホスホン酸フェニル]アミノ]-2-ナフタレンスルホン酸(5-)]コバルト酸(7-)ニアンモニウム五水素	83803-62-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Diboron cobalt(2+) tetraoxide	ホウ酸コバルト(Ⅱ)	38233-75-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Dicarbonyl(eta.5-2,4-cyclopentadien-1-yl)cobalt	ジカルボニル(5-η-2,4-シクロペンタジエン-1-イル)コバルト	12078-25-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Dichloro(1,4-diazabicyclo[2.2.2]octane-N1)cobalt	ジクロロ(1,4-ジアザビシクロ[2.2.2]オクタ-N1)コバルト	68239-57-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Dichlorobis(3-pyridylcarboxamide-N1)cobalt	ジクロロビス(3-ピリジルカルボキシアミド-N1)コバルト	6856-47-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Dicobalt edetate	[[[N,N'-1,2-エタンジイルビス[N-(カルボキシメチル)グリシナド]]]コバルト酸(Ⅱ)	36499-65-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Dicobalt orthosilicate	オルソケイ酸コバルト	13455-33-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Dicobalt tris(sulphate)	硫酸コバルト(Ⅲ)	13478-09-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classificatio n	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~ 16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
Dicobalt(2+) nickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	ビス[2-ヒドロキシプロパン-1,2,3-トリカルボン酸]ニコバルト(Ⅱ) ニッケル(Ⅱ)	94232-84-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	●		
Dihydrogen bis[L-glutamato(2-)-N,O1]cobaltate(2-)	ビス[L-グルタミン酸(2-)-N,O1]コバルト酸(2-) ニ水素	19224-80-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Diphosphoric acid, cobalt(2+) salt (1:2)	ニリン酸コバルト(2+)塩(1:2)	14640-56-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Dipotassium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON]cobaltate(2-)	[[N,N'-エチレンビス[N-(カルボキシメチル)グリシン酸](4-)-N,N',O,O',ON,ON]コバルト酸(2-) ニカリウム	14025-10-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Dipotassium disulphatocobaltate	硫酸コバルトカリウム	13596-22-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Disodium [5-[[1-(aminocarbonyl)-2-oxopropyl]azo]-4-hydroxy-3-nitrobenzenesulphonato(3-)](2-)-[[2-(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutylamidato(2-)]cobaltate(2-)	[5-[[1-(アミノカルボニル)-2-オキソプロピル]アゾ]-4-ヒドロキシ-3-ニトロベンゼンスルホン酸(3-)](2-)-[[2-(2-ヒドロキシ-5-ニトロフェニル)アゾ]-3-オキソ-N-フェニルブチルアミド(2-)]コバルト酸(2-)ニナトリウム	76762-27-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Electrolytes, cobalt-manufacturing A solution used in the electrolytic refining of cobalt. The composition varies according to the particular process involved. The electrolyte generally contains high levels of cobalt ions and lower levels of impurity me	電解質。コバルトの電解精製において使用されるコバルト生成溶液。組成は処理工程により異なる。電解質は通常、高濃度のコバルトと少量の不純物を含有する	121053-28-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Fatty acids, soya, polymers with acetic acid, fumaric acid, linseedoil, maleic anhydride, pentaerythritol, rosin, tall oil, tall-oil fatty acids and triptaerythritol, cobalt salts	重合物である酢酸、フマル酸、あまに油、無水マレイン酸、ペンタエリトリール、ロジン、トール油、脂肪酸トール油、トリペンタエリトリールや大豆油脂肪酸のコバルト塩	70131-61-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Formic acid, cobalt salt	ギ酸コバルト塩	15731-88-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Heptahydrogen bis[4-hydroxy-3-[[2-(2-hydroxy-5-nitrophenyl)azo]-7-(3-phosphonophenylamino)naphthalene-2-sulphonato(5-)]cobaltate(7-)	ビス[4-ヒドロキシ-3-[[2-(2-ヒドロキシ-5-ニトロフェニル)アゾ]-7-[[3-ホスホン酸フェニル)アミノ]ナフタレン-2-スルホン酸(5-)]コバルト酸(7-)七水素	65335-15-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hexa(cyano-o)cobaltate(4-)	六シアノ-C-コバルト酸(4-)	23209-26-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hexanoic acid, 3,5,5-trimethyl-, cobalt(2+) salt	3,5,5-トリメチルヘキサノ酸コバルト(Ⅱ)	49676-83-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrazinium(1+), (OC-6-21)-[[N,N'-1,2-ethanediy]bis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON]cobaltate(2-)(2:1)	ヒドラジニウム(1+)と(OC-6-21)-[[N,N'-1,2-エタンジイルビス[N-(カルボキシメチル)グリシン酸]](4-)-N,N',O,O',ON,ON]コバルト酸(2-)(2:1 混合)	68201-98-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrofluoric acid, reaction products with alumina and cobalt chloride (CoCl2)	酸化アルミニウムや塩化コバルトと反応したフッ化水素	68442-96-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrogen [2,4-dihydro-4-[[2-(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)](1)-[[2-(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)]cobaltate(1-)]	[2,4-ジヒドロ-4-[[2-(2-ヒドロキシ-4-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)](1)-[[2-(2-ヒドロキシ-4-ニトロフェニル)アゾ]-2-ナフタレン酸(2-)]コバルト酸(1-)水素	52277-72-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrogen [2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)](3)-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブチルアミド(2-)](3)-[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)]コバルト酸(1-)水素	83249-70-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrogen bis[1-[[2-(2-hydroxy-4-nitrophenyl)azo]naphthalen-2-olato(2-)]cobaltate(1-)]	ビス[1-[[2-(2-ヒドロキシ-4-ニトロフェニル)アゾ]-2-ナフタレン-オラト(2-)]コバルト酸(1-)水素	32517-38-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrogen bis[2,4-dihydro-4-[[2-(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]cobaltate(1-)]	ビス[2,4-ジヒドロ-4-[[2-(2-ヒドロキシ-4-ニトロフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]コバルト酸(1-)水素	84030-59-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrogen bis[2,4-dihydro-4-[[2-(2-hydroxy-5-mesylphenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]cobaltate(1-)]	ビス[2,4-ジヒドロ-4-[[2-(2-ヒドロキシ-5-メシルフェニル)アゾ]-5-メチル-2-フェニル-3H-ピラゾール-3-オナト(2-)]コバルト酸(1-)水素	29998-71-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrogen bis[2-[[2-(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutylamidato(2-)](2-)]cobaltate(1-), compound with 2,2'-dodecyliminobis[ethanol] (1:1)	ビス[2-[[2-(2-ヒドロキシ-5-ニトロフェニル)アゾ]-3-オキソ-N-フェニルブチルアミド(2-)](2-)]コバルト酸(1-)水素と2,2'-ドデシルイミノビス[エタノール]混合物(1:1)	84030-58-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			
Hydrogen bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)]	ビス[3-[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミド(2-)]コバルト酸(1-)水素	83249-73-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																			



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Hydrogen bis[5,8-dichloro-2-[(2-hydroxy-4-nitrophenyl)azo]-1-naphtholato(2-)]cobaltate(1-), compound with cyclohexylamine (1:1)	ビス[5,8-ジクロロ-2-[(2-ヒドロキシ-4-ニトロフェニル)アゾ]-1-ナフタレン酸(2-)]コバルト酸(1-)、水素とシクロヘキシルアミンの混合物(1:1)	82338-72-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Hydrogen bis[5,8-dichloro-2-[(2-hydroxy-5-nitrophenyl)azo]-1-naphtholato(2-)]cobaltate(1-), compound with cyclohexylamine (1:1)	ビス[5,8-ジクロロ-2-[(2-ヒドロキシ-5-ニトロフェニル)アゾ]-1-ナフタレン酸(2-)]コバルト酸(1-)、水素とシクロヘキシルアミンの混合物(1:1)	82338-74-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Hydrogen bis[N-(7-hydroxy-8-[[2-hydroxy-5-mesylphenyl]azo]-1-naphthyl)cobaltate(1-)]	ビス[N-[[7-ヒドロキシ-8-[[2-ヒドロキシ-5-メシルフェニル]アゾ]-1-ナフチル]コバルト酸(1-)]水素	29616-23-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Isononanoic acid, cobalt salt	イソノナン酸コバルト(混合)	57364-75-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Leach residues, zinc ore-calcine, cobalt repulp	コバルト再溶解の亜鉛が焼材の鉛残留物	69012-71-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Lithium bis[2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)]3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブチルアミダト(2-)]3-[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2-)]コバルト酸(1-)]リチウム	83270-30-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Lithium bis[2-[[2-hydroxy-5-nitrophenyl]azo]-3-oxo-N-phenylbutylamidato(2-)]cobaltate(1-)	3-オキソ-N-フェニルブチルアミダト(2-)]コバ ビス[2-[[2-ヒドロキシ-5-ニトロフェニル]ア ゾ]-ルト酸(1-)]リチウム	83733-13-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Lithium bis[2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)]cobaltate(1-)	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブチルアミダト(2-)]コバルト酸(1-)]リチウム	83249-68-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Lithium bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	ビス[3-[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼン スルホンアミダト(2-)]コバルト酸(1-)]リチウム	83249-72-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Molybdate (Mo7O246-), cobalt(3+) (2:1)	モリブデン酸(Mo7O246-)コバルト(3+)混合物(2:1)	68647-47-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
N,N'-Ethylenebis(glycinato-O,N)cobalt	N,N'-エチレンビス(グリシン酸-O,N)コバルト	29977-10-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Naphthenic acid, cobalt lead manganese salt		61789-50-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D/P		●	●														
Neodecanoic acid, cobalt(2+) salt	ネオデカン酸コバルト(Ⅱ)	52270-44-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Nitric acid, cobalt(3+) salt	硝酸コバルト	15520-84-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Octadecanoic acid, cobalt salt	ステアリン酸コバルト(Ⅱ)	13586-84-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Octanoic acid, cobalt salt	オクタン酸コバルト	6700-85-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Pentapotassium bis[5-[[4-amino-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]naphthalene-2,7-disulphonato(4-)]cobaltate(5-)]	ビス[5-[[4-アミノ-6-クロロ-1,3,5-トリアジン-2-イル]アミノ]-4-ヒドロキシ-3-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-2,7-ナフタレンジスルホン酸(4-)]コバルト酸(5-)]五カリウム	79817-89-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Perchloric acid, cobalt(2+) salt	過塩素酸コバルト	13455-31-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000 Relative to the weight of component parts and materials Perchloric acid concentration 0.06	D	Mandatory																
Phosphonic acid, (1-hydroxyethylidene)bis-, ammonium cobalt(2+) salt (1:2:1)	1-ヒドロキシエチリデンビス(ホスホン酸)コバルト(Ⅱ),2アンモニウム	69178-34-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Phosphonic acid, (1-hydroxyethylidene)bis-, cobalt(2+) potassium salt (1:1:2)	1-ヒドロキシエチリデンビス(ホスホン酸)コバルト(Ⅱ),2カリウム	69140-59-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Phosphonic acid, (1-hydroxyethylidene)bis-, cobalt(2+) sodium salt (1:1:2)	1-ヒドロキシエチリデンビス(ホスホン酸)コバルト(Ⅱ),2ナトリウム	69140-60-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Phosphoric acid, ammonium cobalt(2+) salt (1:1:1)	リン酸アンモニウムコバルト(Ⅱ)	14590-13-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Phosphoric acid, cobalt(2+) salt (1:1)	リン酸水素コバルト(Ⅱ)	13596-21-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Phosphoric acid, cobalt(2+) salt (2:1)	ビス(リン酸二水素)コバルト(Ⅱ)	18718-10-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Phosphoric acid, cobalt(2+) salt (2:3), hydrate	リン酸コバルト塩(Ⅱ)の水和物	10101-56-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Potassium [N,N-bis(carboxymethyl)glycinate(3-)-N,O,O',O']cobaltate(1-)	[N,N -ビス(カルボキシメチル)グリシン酸(3-)-N,O,O',O']コバルト酸(1-)カリウム	63640-17-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Propanoic acid, 2,2-dimethyl-, cobalt(2+) salt	2,2-ジメチルプロピオン酸コバルト(Ⅱ)	15520-31-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Selenic acid, cobalt(2+) salt (1:1)	セレン酸コバルト(Ⅱ)	14590-19-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sodium [2-[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidate(2-)]3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidate(2-)]cobaltate(1-)	ビス[2-[[5-(アミノスルホニル)-2-ヒドロキシフェニル]アゾ]-3-オキソ-N-フェニルブチルアミダト(2-)]3-[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミダト(2-)コバルト酸(1-)ナトリウム	83249-69-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sodium bis[1-[5-(ethylsulphonyl)-2-hydroxyphenyl]azo]-2-naphtholate(2-)]cobaltate(1-)	ビス[1-[[5-(エチルスルホニル)-2-ヒドロキシフェニル]アゾ]-2-ナフトール酸(2-)]コバルト酸(1-)ナトリウム	55870-94-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sodium bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidate(2-)]cobaltate(1-)	ビス[3-[[1-(ベンゾチアゾール-2-イル)-2-オキソプロピル]アゾ]-4-ヒドロキシベンゼンスルホン酸アミダト(2-)コバルト酸(1-)ナトリウム	83249-71-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sodium bis[3-[[4,5-dihydro-3-methyl-1-(4-nitrophenyl)-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulphonamidate(2)]cobaltate(1-)	ソデウムビス[3-[[4,5-デヒドロ-3-メチル-1-(4-ニトロフェニル)-5-オキソ-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシベンゼンスルホンアミダト(2)]コバルト酸(1-)	83803-65-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sodium bis[4-[[4-chloro-1-hydroxy-2-naphthyl]azo]-N,N'-diethyl-5-hydroxybenzene-1,3-disulphonamidate(2-)]cobaltate(1-)	ビス[4-[[4-クロロ-1-ヒドロキシ-2-ナフトール]アゾ]-N,N'-ジメチル-5-ヒドロキシベンゼン-1,3-ジスルホン酸(2-)コバルト酸(1-)ナトリウム	24215-94-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sodium bis[4-hydroxy-3-[[5-(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]-N-methylbenzenesulphonamide S,S-dioxidate(2-)]cobaltate(1-)	ビス[4-ヒドロキシ-3-[[5-ヒドロキシナフト[2,1-d]-1,3-オキサチオール-4-イル]アゾ]-N-メチルベンゼンスルホン酸アミド-S,S-ジオキシデート(2-)コバルト酸(1-)ナトリウム	83817-78-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sodium bis[methyl [8-[[5-(ethylsulphonyl)-2-hydroxyphenyl]azo]-7-hydroxy-2-naphthyl]methylcarbamate(2-)]cobaltate(1-)	ビス[メチル[8-[[5-(エチルスルホニル)-2-ヒドロキシフェニル]アゾ]-7-ヒドロキシ-2-ナフトール]メチルカルバマート(2-)コバルト酸(1-)ナトリウム	55870-93-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Spinel, cobalt nickel zinc grey	尖晶石(コバルトニッケル亜鉛グレー)	95046-47-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sulfuric acid, ammonium cobalt(2+) salt	ビス(硫酸)コバルト(Ⅱ)ニアンモニウム	13586-38-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sulfuric acid, ammonium cobalt(2+) salt (2:2:1)	硫酸アンモニアコバルト(Ⅱ)(2:2:1)	13596-46-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Sulfuric acid, cobalt salt, hydrate	硫酸コバルト塩水和物	65492-00-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Tetrakis[(decanoato-O)cobalt]tetra-μ-oxotitanium	テトラキス[(デカン酸-O)コバルト]テトラ-μ-オキシチタン	84145-31-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Tetrakis[(octanoato-O)cobalt]tetra-μ-oxotitanium	テトラキス[(オクタノ酸-O)コバルト]テトラ-μ-オキシチタン	84176-59-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Thiocyanic acid, cobalt(2+) salt	チオシアン酸コバルト(Ⅱ)	3017-60-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Tri-μ-carbonyltetracarbonyl(pentacarbonyl)dirhodium	トリ-μ-カルボニルテトラカルボニル(五カルボニル)ニロジウム	50696-78-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Tricobalt bis(orthophosphate)	リン酸コバルト(Ⅱ)	13455-36-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Tricopper bis[hexa(cyano-c)cobaltate(3-)]	三[[ヘキサシアノ-C)コバルト酸(3-)]三銅	14518-26-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Trihydrogen bis[5-[[[4-hydroxy-3-[[2-oxo-1-[[phenylamino]carbonyl]propyl]azo]phenyl]sulphonyl]amino]naphthalene-2-sulphonato(3-)]cobaltate(3-)	ビス[5-[[[4-ヒドロキシ-3-[[2-オキソ-1-[[フェニルアミノ]カルボニル]プロピル]アゾ]フェニル]スルホン酸(3-)]アミノ]ナフタレン-2-スルホン酸(3-)]コバルト酸(3-)三水素	72932-56-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Triphenyl(p,p,p-triphenylphosphine imidato-N)phosphorus(1+) tetracarbonylcobaltate(1-)	トリフェニル(p,p,p-トリフェニルリンイミデート-N)リン酸(1-)テトラカルボニルコバルト酸(1-)	53433-12-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Tris(heptane-3,5-dionato-O,O)cobalt	トリス(3,5-ヘプタンジオナト)コバルト(III)	15188-91-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium [N,N-bis[2-bis(carboxymethyl)amino]ethyl]glycinate(5-)]cobaltate(3-)	[N,N-ビス[2-[[ビス(カルボキシメチル)アミノ]エチル]グリシン酸(5-)]コバルト酸(3-)三ナトリウム	6255-07-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-2-hydroxy-5-nitrobenzenesulphonato(3-)]cobaltate(3-)	ビス[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-2-ヒドロキシ-5-ニトロベンゼンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	84204-70-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium bis[3-[[5-amino-3-methyl-1-phenyl-1H-pyrazol-4-yl]azo]-5-chloro-4-hydroxy-N-[2-(sulphooxy)ethyl]benzenesulphonamidato(3-)]cobaltate(3-)	ビス[3-[[5-アミノ-3-メチル-1-フェニル-1H-ピラゾール-4-イル]アゾ]-5-クロロ-4-ヒドロキシ-N-[2-(スルホオキシ)エチル]ベンゼンスルホン酸アミダト(3-)]コバルト酸(3-)三ナトリウム	83804-04-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium bis[4-[[4,5-dihydro-4-[[2-hydroxy-5-nitrophenyl]azo]-3-methyl-5-oxo-1H-pyrazol-1-yl]benzene-1-sulphonato(3-)]cobaltate(3-)	ビス[4-[[4,5-ジヒドロ-4-[[2-ヒドロキシ-5-ニトロフェニル]アゾ]-3-メチル-5-オキソ-1H-ピラゾール-1-イル]ベンゼン-1-スルホン酸(3-)]コバルト酸(3-)三ナトリウム	79135-28-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium bis[4-hydroxy-3-nitro-5-[[2-oxo-1-[[phenylamino]carbonyl]propyl]azo]benzenesulphonato(3-)]cobaltate(3-)	ビス[4-ヒドロキシ-3-ニトロ-5-[[2-オキソ-1-[[フェニルアミノ]カルボニル]プロピル]アゾ]ベンゼンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	83733-22-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium bis[5-chloro-2-hydroxy-3-[[2-hydroxy-1-naphthyl]azo]benzenesulphonato(3-)]cobaltate(3-)	ビス[5-クロロ-2-ヒドロキシ-3-[[2-ヒドロキシ-1-ナフチル]アゾ]ベンゼンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	6771-86-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium bis[6-amino-5-[[2-hydroxy-3,5-dinitrophenyl]azo]naphthalene-1-sulphonato(3-)]cobaltate(3-)	ビス[6-アミノ-5-[[2-ヒドロキシ-3,5-ジニトロフェニル]アゾ]ナフタレン-1-スルホン酸(3-)]コバルト酸(3-)三ナトリウム	84057-73-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium bis[amino[[2-hydroxy-3,5-dinitrophenyl]azo]naphthalenesulphonato(3-)]cobaltate(3-)	ビス[アミノ[[2-ヒドロキシ-3,5-ジニトロフェニル]アゾ]ナフタレンスルホン酸(3-)]コバルト酸(3-)三ナトリウム	74220-71-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Trisodium hexanitritocobaltate	ヘキサニトロコバルト(III)酸ナトリウム	13600-98-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Xanthylum, 9-(2-carboxyphenyl)-3,6-bis(diethylamino)-, bis[3-[[4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-4-hydroxy-N-[3-(1-methylethoxy)propyl]benzenesulfonamidato(2-)]cobaltate(1-)	9-(2-カルボキシフェニル)-3,6-ビス(ジメチルアミノ)-, bis[3-[[4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル]アゾ]-4-ヒドロキシ-N-[3-(1-メチルエトキシ)プロピル]ベンゼンスルホン酸アミダト(2-)]コバルト酸(1-)キシリウム	71566-55-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
C.I. Acid Red 182		61901-42-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
1-Propanamin, N,N-dipropyl-, cobalt complex		75101-45-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt borate neodecanoate complexes,		68457-13-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
C.I. Pigment Blue 28	酸化第一コバルト/酸化アルミニウム(1:1)	1345-16-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
Cobalt aluminate blue spinel		68186-86-7	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
C.I. Acid Blue		51053-44-2	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
C.I. Pigment Blue 36		68187-11-1	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
C.I. Pigment Green 26		68187-49-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
C.I. Pigment Violet 47		68610-13-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
C.I. Pigment Green 50		68186-85-6	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	
C.I. Pigment Blue 72		68186-87-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
C.I. Pigment Green 19		8011-87-8	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
C.I. Pigment Black 27		68186-97-0	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Cobalt(II) isoalkanoates(C6-C19)		68409-81-4	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
(C9-C13) Neoalkanoic acids, cobalt(2+) salts		68955-83-9	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Trisodium bis(2-hydroxy-5-nitro-3-((2-oxo-1-(phenylamino)carbonyl)propyl)azo)benzenesulphonato(3-)cobaltate(3-)		85959-73-5	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D																		
Zinc chrome cobalt aluminate blue spinel		74665-01-3	Observation	All applications and products	Relative to the weight of component parts and materials Cobalt compounds and alloys (excluding steels) 1000	D		●	●							●								
Colophony (Rosin), selected	コロホニー(ロジン), 抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D																		
Rosin	ロジン	8050-09-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Colophony resin	コロホニー	148499-15-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Resin acids and Rosin acids zinc salts		91081-53-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Cyclododecane, hexabromo- (HBOD)	ヘキサブロモシクロドデカン (HBOD)	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
Cyclododecane, hexabromo- (HBOD)	ヘキサブロモシクロドデカン (HBOD)	25637-99-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory			●							●	●	●	●				
1,2,5,6,9,10-Hexabromocyclododecane	1,2,5,6,9,10-ヘキサブロモシクロドデカン (HBODD)	3194-55-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory			●							●	●		●				
rel-(1R, 2S, 5R, 6S, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	4736-49-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
rel-(1R, 2S, 5R, 6S, 9S, 10R)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	65701-47-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
rel-(1R, 2R, 5S, 6R, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	アルファ-ヘキサブロモシクロドデカン	134237-50-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory			●								●		●				
rel-(1R, 2S, 5R, 6R, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	ベータ-ヘキサブロモシクロドデカン	134237-51-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory			●								●		●				
rel-(1R, 2R, 5R, 6S, 9S, 10R)-1,2,5,6,9,10-Hexabromocyclododecane	ガンマ-ヘキサブロモシクロドデカン	134237-52-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory			●								●		●				
(1R, 2R, 5R, 6S, 9S, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	138257-17-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
(1R, 2R, 5R, 6S, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	138257-18-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
(1R, 2S, 5S, 6R, 9S, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	138257-19-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
(1R, 2S, 5S, 6S, 9S, 10R)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	169102-57-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
(1R, 2R, 5S, 6R, 9R, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	678970-15-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
(1R, 2S, 5R, 6S, 9S, 10S)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	678970-16-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
(1R, 2R, 5R, 6S, 9S, 10R)-1,2,5,6,9,10-Hexabromocyclododecane	ヘキサブロモシクロドデカン (HBOD)	678970-17-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●										●				
Diamino-diphenylmethane (4,4'-Diaminodiphenylmethane)	ジアミノジフェニルメタン (4,4'-ジアミノジフェニルメタン)	101-77-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 30	P	Mandatory										●	●			●			
Diisodecyl azelate		28472-97-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Dimethylformamide (N,N-Dimethylformamide)	N,N-ジメチルホルムアミド	68-12-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●				●		
Diorganotin compounds	有機スズ化合物			Note 7) To be prohibited: All applications and products for the European market Note 8) To be reduced: All applications and products except for the European market	Relative to the weight of component parts and materials Tin concentration 1000	D/P																		
Dibutyltin compounds, all members	ジブチルスズ化合物, すべて			Note 7) To be prohibited: All applications and products for the European market Note 8) To be reduced: All applications and products except for the European market	Relative to the weight of component parts and materials Tin concentration 1000	D/P																		
3,8,10-Trioxa-9-stannatetradeca-5,12-dien-14-oic acid, 9,9-dibutyl-2-methyl-4,7,11-trioxo-, 1-methylethyl ester, (Z,Z)-	3,8,10-トリオキサ-9-スタンナテトラデカ-5,12-ジエン-14-酸,9,9-ジブチル-2-メチル-4,7,11-トリオキソ-,1-メチルエチル,(Z,Z)-	22535-42-8	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																●		
3,8,10-Trioxa-9-stannatetradeca-5,12-dien-14-oic acid, 9,9-dibutyl-4,7,11-trioxo-, ethyl ester, (Z,Z)-	3,8,10-トリオキサ-9-スタンナテトラデカ-5,12-ジエン-14-酸,9,9-ジブチル-4,7,11-トリオキソ-,エチル,(Z,Z)-	13173-04-1	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																●		



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
5,7,12-Trioxa-6-stannatetracos-2,9-dienoic acid, 6,6-dibutyl-4,8,11-trioxo-, dodecyl ester, (Z,Z)-	5,7,12-トリオキサ-6-スタンナテトラコサ-2,9-ジエン酸ドデシル,6,6-ジブチル-4,8,11-トリオキサ-,ドデシル酸(Z,Z)-	33466-31-8	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●									
Acetate, S,S'-bis(octylmercapto-, dibutyltin	S,S'-ビスオクチルメルカプト酢酸ジブチルス	32011-18-0	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Bis (acetato) dibutyltin	ビス酢酸ジブチルスズ	17523-06-7	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyl tin	ジブチルスズ	1002-53-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltinbis(2-ethylhexyl mercaptoacetate)		10584-98-2	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutylbis(octyl maleate)tin		17036-31-6	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Diisooctyl 4,4'-((dibutylstannylene)bis(oxy))bis(4-oxoisocrotonate)		25168-21-2	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutylbis((1-oxoneodecyl)oxy)stannane		25168-22-3	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutylbis(myristoyloxy)stannane		28660-67-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutylthioxostannane		4253-22-9	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutylbis[(1-oxoisooctadecyl)oxy]stannane		59963-28-9	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane		93925-42-9	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutylbis(ethyl 3-oxobutyrato-O1',O3)tin	ジブチルビス( エチル-3-オキソブチル酸-O1',O3) スズ	54581-65-6	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin bis(2-ethylhexyl-3-mercapto propionate)	3,3'-[(ジブチルスタニレン)ビス(チオ)]ビスプロピオン酸ビス(2-エチルヘキシル)	53202-61-2	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin bis(benzyl maleate)	8,8-ジブチル-3,6,10-トリオキソ-1-フェニル-2,7,9-トリオキサ-8-スタンナトリデカ-4Z,11Z-ジエン-13-酸 フェニルメチルエステル	7324-74-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin bis(cyclohexyl maleate)	(Z,Z)-ジブチルビス[[4-(シクロヘキシルオキシ)-1,4-ジオキソ-2-ブチニル]オキシ]スタンナン	5587-52-0	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin bis(isooctyl mercaptoacetate)	ジブチルスズビスイソオクチルチオグリコレート	25168-24-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin bis(lauryl β-mercapto propionate)	3,3'-[(ジブチルスタニレン)ビス(チオ)]ビスプロピオン酸ジドデシル	51287-83-3	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin bis(octylthioglycolate)	2,2'-[(ジブチルスタニレン)ジチオ]ビス酢酸ジオクチルエステル	2781-09-1	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin bis(oley maleate)	(all-Z)-4,4'-[(ジブチルスタニレン)ビス(オキシ)]ビス[4-オキソ-2-ブチニル]オキシ-9-オクタデセニル	29881-72-9	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin di(isooctyl 3-mercapto propionate)	3,3'-[(ジブチルスタニレン)ビス(チオ)]ビスプロパン酸ジイソオクチル	26761-46-6	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin diacetate	ジブチルスズジアセタート	1067-33-0	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory																		
Dibutyltin dibenzoate	ビス(ベンゾイルオキシ)ジブチルスタナン	5847-54-1	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin dibutoxide	ジブチルジブチルスズ	3349-36-8	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin dichloride	ジブチルジクロロスズ(IV)	683-18-1	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory											●							
Dibutyltin dihexanoate	ジブチルビス(ヘキサノイルオキシ)スタンナン	19704-60-0	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin dilaurate	ジブチル[(1-オキソドデシル)オキシ]スズ	77-58-7	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory																		
Dibutyltin dilauryl mercaptide	ジブチルビス(ドデシルチオ)スタンナン	1185-81-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin dimaleate	(Z,Z)-4,4'-[(ジブチルスタニレン)ビス(オキシ)]ビス[4-オキソ-2Z,2'Z'-2-ブチニル]	10192-92-4	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutylidimethoxystannane		1067-55-6	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin dioctanoate	ジブチルビス[(1-オキソオクチル)オキシ]スズ	4731-77-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin dioleate	ジブチルビス(オレオイルオキシ)スタンナン	13323-62-1	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin dipalmitate	ジブチルビス[(1-オキソヘキサデシル)オキシ]スズ	13323-63-2	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin disalicylate	ジブチルビス((2-ヒドロキシベンゾイル)オキシ)スタンナン	14214-24-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin distearate	ビスステアリン酸ジブチルスタナンジイル	5847-55-2	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			
Dibutyltin hydrogen borate	ジブチルスズ水酸化ホウ素	75113-37-0	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P																			

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Dibutyltin isooctanoate	ジブチルビス[(1-オキソイソオクチル)オキシ]ースタンナン	85702-74-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Dibutyltin linoleate	ジブチルスズリノール酸塩	85391-79-3	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Dibutyltin linolenate	ジブチルスズリノレン酸エステル	95873-60-2	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Dibutyltin maleate	2,2-ジブチル-1,3,2-ジオキサスタネピン-4,7-ジオン	78-04-6	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory									●							
Dibutyltin mercaptoacetate	2,2-ジブチル-1,3,2-オキサチアスタノラン	78-20-6	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Dibutyltin mercaptopropionate	2,2-ジブチルジヒドロ-6H-1,3,2-オキサチアスタニン	78-06-8	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Dibutyltin oxide	ジブチルスズオキシド	818-08-6	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory									●							
Dibutyltin S,S'-bis(isooctyl mercaptoacetate) Acetic acid, 2,2'-[(dimethylstannylene)bis(thio)]bis-, 1,1'-diisooctyl ester	2,2'-[(ジメチルスタニレン)ビス(チオ)]ビス酢酸ジイソオクチル	26636-01-1	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Dibutyltin di(2-ethylhexyl maleate)	ジブチルスズジ(2-エチルヘキシル マレイン酸)	15546-12-0	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Dibutyltin bis(C8 to C18 unsatd. fatty acyloxy) derivs.		85508-00-5	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Di-n-butyltin bis(methyl maleate)	Di-n-ブチルスズビス(マレイン酸メチル)	15546-11-9	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Dibutyltin diisothiocyanate		15719-34-3	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Di-n-butyltin di(monobutyl)maleate	Di-n-ブチルスズダイ(モノブチル)マレイン酸エステル	15546-16-4	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Di-n-butyltin di-2-ethylhexanoate	ジブチルスズ[(2-エチル-1-オキソヘキシル)オキシ]スズ	2781-10-4	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Tin, dibutyl(1,2-ethanediamine-N,N')bis(monoisooctyl 2-butenedioato-O)-	ジブチル(1,2-エタンジアミン-N,N')ビス(イソオクチル2-ブテンジオアト-O)スズ	163206-28-8	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Tin, dibutyl[N-(carboxymethyl)-N-(2-hydroxyethyl)glycinato(2-)]-	ジブチル[N-(カルボキシメチル)-N-(2-ヒドロキシエチル)グリシン酸(2-)]スズ	68239-46-3	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Tin, dibutylbis(2,4-pentanedionato-O,O')-(OC-6-11)-	ジブチルビス(2,4-ペンタンジオナト)スズ(IV)	22673-19-4	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Tin, dibutylbis(methyl 3-mercaptopropanoato-O,S)-	ジブチルビス(ヒドロゲン 3-メルカプトプロピオナト)-スズジメチル	32011-19-1	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Tin, dibutylbis(N,N-diethylethanamine)difluoro-	ジブチルビス(N,N-ジエチルエタンアミン)ジフルオロスズ	67924-24-7	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Other dibutyltin compounds		—	Prohibited Reduced	Note 7 Note 8	Relative to the weight of component parts and materials Tin concentration 1000		Mandatory																
Diocetyl tin compounds, all members	ジオクチルすず化合物, すべて			Note 9) To be prohibited: Adhesives and 2-component room temperature curing casting products of all applications and products for the European market that are in contact with the human body continuously for a long period of time Note 10) To be reduced: Adhesives and 2-component room temperature curing casting products of all applications and products for the European market, and adhesives and 2-component room temperature curing casting products of all applications and products for the European market that are not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials Tin concentration 1000	D/P																	
Acetic acid, 2,2'-[[diocetylstannylene)bis(thio)]bis-, 1,1'-diisooctyl ester	ジオクチルスズビス(イソオクチルチオグリレート)	26401-97-8	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Bis(dodecylthio)diocetylstannane		22205-30-7	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
2-Butenedioic acid, 1,1'-((diocetylstannylene) 4,4'-diethyl ester		88109-88-6	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Di-n-octyltin bis(2-ethylhexyl maleate)		10039-33-5	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Diocetylbis(pentane-2,4-dionato-O,O')tin		54068-28-9	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Diocetylbis(stearoyloxy)stannane		22205-26-1	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)		15571-58-1	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory									●		●					
Diocetyl tin bis(isooctyl maleate)	ビスイソオクチルマレイン酸ジオクチルスズ	33568-99-9	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Diocetyl tin dichloride	ジクロロジオクチルスズ	3542-36-7	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Diocetyl tin dilaurate		3648-18-8	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory									●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Diocetyl tin maleate	ジ-n-オクチルスズマレイン酸エステル塩	16091-18-2	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Diocetyl tin oxide (Stannane, dioctyltin oxide)	ジ-n-オクチルスズオキシド	870-08-6	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory									●							
Diocetyl tin dodecanoate		68299-15-0	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)diocetyl stannane		93925-43-0	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Reaction mass of DOTE/MOTE	DOTEとMOTEの反応生成物	—	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●	●						
2-ethylhexyl 10-ethyl-4-[[2-[[2-ethylhexyloxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (MOTE)		27107-89-7	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000	D/P										●							
Other Diocetyl tin compounds		—	Prohibited Reduced	Note 9 Note 10	Relative to the weight of component parts and materials Tin concentration 1000		Mandatory																
Other Diorganotin compounds	その他のジ有機すず化合物			All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D																	
Diisobutyl tin oxide	ジイソブチルスズオキシド	61947-30-6	Reduced	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D										●							
Dimethoxybis(pentane-2,4-dionato-O,O')tin	ニメトキシビス(ペンタン-2,4-ジオネート-O,O')スズ	66779-19-9	Reduced	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D										●							
Tin, dichloro[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (OC-6-12)-	ジクロロ[29H,31H-フタルシアン酸(2-)-N29,N30,N31,N32]スズ, (炭素数6-12)	18253-54-8	Reduced	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D										●							
2,6-di-tert-butyl-p-cresol		128-37-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol		96-69-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
2,5-di-tert-pentylhydroquinone		79-74-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
2,2'-Dithiobis(benzothiazole)		120-78-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Dodecachloropentacyclo 1, 3, 4-Metheno-1H-cyclobuta(cd)pentalene, Mirex	ドデカクロロペンタシクロ [5.3.0.0(2.6).0(3.9).0(4.8)]デカン マイレックス	2385-85-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P				●										●			
1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo[12.2.1.16,9.02.13.05,10]octadeca-7,15-diene (Dichlorane Plus)		13560-89-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Epichlorohydrin (1-chloro-2,3-epoxypropane)	エピクロロヒドリン	106-89-8	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D															●		
Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, chloride (Basic Blue 7)		2390-60-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Decabromo-diphenyl-ethane		84852-53-9	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900	D	Optional																
Ethanol, 2-(2-methoxyethoxy)-	2-(2-メトキシエトキシ)エタノール(DEGME)	111-77-3	Reduced	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D										●							
Ethyl-/ Methyl-glycols and their acetates	エチル/メチルグリコール及びそのアセテート, 抜粋			All applications and products		D/P																	
2-Methoxyethanol	2-メトキシエタノール	109-86-4	Prohibited	Prohibited as impurity in Diethylene glycol methyl ether and in hard parts	Prohibited 2.05% w/w in Diethylene glycol methyl ether. Any intentionally added content in hard parts	P											●				●		
Propanol, 2-methoxy-	2-メトキシプロパノール	1589-47-5	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																●	
EGDME		110-71-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●				●	
2-Ethoxyethanol	2-エトキシエタノール, セロソルブ	110-80-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D												●				●	
2-Methoxyethyl acetate	エチレンジグリコールモノメチルエーテルアセテート	110-49-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																●	
Ethylenethiourea/lmidazolidine-2-thione	2-イミダゾリジンチオン	96-45-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●				●	
Fluorotelomers, selected	フッ素テロマー, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D																	
8-2 telomer alcohol:	2-(ペルフルオロオクチル)エタノール	678-39-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
8-2 telomer olefin:	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-ヘプタデカフルオロ-1-デセン	21652-58-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
2-(perfluorooctyl)ethyl iodide, 8-2 telomer iodide:	1,1,1,2,2,3,3,4,4,5,5,6,6-トリデカフルオロ-8-ヨードオクタン	2043-53-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
C8 iodide: (Octane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluoro-8-iodo- )	ペルフルオロオクチルヨード	507-63-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
C10-2 Fluorotelomer alcohol: (1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosfluoro- )	2-(ペルフルオロデシル)エタノール	865-86-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
C10-2 telomer B iodide:	2-(ペルフルオロデシル)ヨード	2043-54-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
2,5-Furandione,dihydro-3-(tetrapropenyl)-		26544-38-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Hexachlorobenzene	ヘキサクロロベンゼン	118-74-1	Prohibited	All applications and products	Concentration in homogeneous materials 10 Based on the handling of content containing side-product hexachlorobenzene (announcement) following the revision of the "Application of Chemical Substances Control Law", October 15, 2007, Ministry of Economy, Trade and Industry	D/P				●									●	●		●		
Hexachloro-1,3-butadiene (HCBd)	ヘキサクロロ-1,3-ブタジエン (HCBd)	87-68-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P				●									●	●				
Hexachlorocyclohexane, gamma isomer, Lindane	ヘキサクロロシクロヘキサン	58-89-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D				●									●	●				
Hexamethyldisiloxane		107-46-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Hexanedioic acid, bis(2-ethylhexyl) ester	アジピン酸ビス(2-エチルヘキシル)	103-23-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																		
2-Hexyldecan-1-ol		2425-77-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Hydrazine	ヒドラジン	302-01-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D												●				●		
Hydrobromofluorocarbons (HBFC's), all members	ハイドロブロモフルオロカーボン; HBFC's, すべて			All applications and products	Relative to the weight of component parts and materials 1000	P																		
1,2-Dibromo-1,1-difluoroethane	1,2-ジブロモ-1,1-ジフルオロエタン	75-82-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Dibromofluoromethane	ジブロモフルオロメタン	1868-53-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
C2H2F2Br2: 1,1-Dibromo-2,2-difluoroethane(Ethane, 1,1-Dibromo-2,2-difluoro-)	ジブロモフルオロエタン	359-19-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
Bromodifluoromethane	ブロモジフルオロメタン	1511-62-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1-Bromo-2-fluoroethane	ブロモフルオロエタン	762-49-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1-Bromo-3-fluoropropane(Propane, 1-Bromo-3-fluoro-)	ブロモフルオロプロパン	352-91-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
3-Bromo-1,1,1-trifluoropropane(Propane, 3-Bromo-1,1,1-trifluoro-)	ブロモテトラフルオロプロパン	460-32-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
1,2-Dibromo-1-fluoroethane	ジブロモフルオロエタン	358-97-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,3-Dibromo-1,1-difluoropropane	ジブロモジフルオロプロパン	460-25-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,2-Dibromo-1,1,2-trifluoroethane	ジブロモトリフルオロエタン	354-04-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
2,3-Dibromo-1,1,1-trifluoropropane	ジブロモトリフルオロエタン	431-21-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,1,1,2-tetrabromo-2-fluoro-ethane	テトラブロモフルオロエタン	353-93-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
1,1,2,2-tetrabromo-1-fluoro-ethane	テトラブロモフルオロエタン	306-80-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,1,1-tribromo-2,2-difluoroethane	トリブロモジフルオロエタン	7304-53-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
1,2,2-tribromo-1,1-difluoroethane	トリブロモジフルオロエタン	677-34-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
1,1,2-tribromo-1,2-difluoroethane	トリブロモジフルオロエタン	353-97-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
1,1,2-tribromo-1-fluoroethane	トリブロモフルオロエタン	420-88-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
1,1,2-tribromo-2-fluoroethane	トリブロモフルオロエタン	598-67-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
C2H3F2Br: Bromo-1,1-difluoroethane (Ethane, 2-bromo-1,1-difluoro- )	ブロモジフルオロエタン	359-07-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
C3HFBr6	ヘキサブロモフルオロプロパン	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
C3HF2Br5	ペンタブロモジフルオロプロパン	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
C3HF3Br4	テトラブロモトリフルオロプロパン	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
C3HF4Br3	トリブロモテトラフルオロプロパン(HBFC-224 B3)	666-48-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
C3H2FBr5	ペンタブロモフルオロプロパン	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
C3H2F2Br4	テトラブロモジフルオロプロパン(HBFC-232 B4)	148875-98-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																
1,2,2-Tribromo-3,3,3-trifluoropropane	トリブロモトリフルオロプロパン(HBFC-233 B3)	421-90-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																
1,3-Dibromo-1,1,3,3-tetrafluoropropane	ジブロモテトラフルオロプロパン(HBFC-234 B2)	460-86-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																
1-bromo-1,1,2,2,2-pentafluoro-propane	ブロモペンタフルオロプロパン	422-01-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
2-bromo-1,1,1,2,3-pentafluoro-propane	ブロモペンタフルオロプロパン	677-52-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1-bromo-1,1,2,2,3-pentafluoro-propane	ブロモペンタフルオロプロパン	677-53-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
2-bromo-1,1,1,3,3-pentafluoro-propane	ブロモペンタフルオロプロパン	22692-16-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1-bromo-1,1,3,3,3-pentafluoro-propane	ブロモペンタフルオロプロパン	460-88-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																
1-bromo-1,2,2,3,3-pentafluoro-propane	ブロモペンタフルオロプロパン	679-94-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
2-bromo-1,1,2,3,3-pentafluoro-propane	ブロモペンタフルオロプロパン	26391-11-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
Propane, 3-bromo-1,1,1,2,3-pentafluoro-, (R*,S*)- (9C)	ブロモペンタフルオロプロパン	53692-43-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
Propane, 3-bromo-1,1,1,2,3-pentafluoro-, (R*,R*)- (9C)	ブロモペンタフルオロプロパン	53692-44-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
C3H3FBr4	テトラブロモフルオロプロパン(HBFC-241 B4)	148875-95-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																
1,2,3-Tribromo-3,3-difluoropropane	トリブロモジフルオロプロパン	666-25-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
2-bromo-1,1,3,3-tetrafluoro-propane	ブロモテトラフルオロプロパン	19041-01-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
2-bromo-1,3,3,3-tetrafluoropropane	ブロモテトラフルオロプロパン	29151-25-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
3-Bromo-1,1,2,2-tetrafluoropropane	ブロモテトラフルオロプロパン	679-84-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																
1-bromo-1,1,2,2-tetrafluoropropane	ブロモテトラフルオロプロパン	70192-84-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1-bromo-1,2,2,3-tetrafluoro-propane	ブロモテトラフルオロプロパン	70192-71-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
3-bromo-1,1,1,3-tetrafluoropropane	ブロモテトラフルオロプロパン	460-67-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
C3H4FBr3	トリブロモフルオロプロパン	75372-14-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																
1,2-Dibromo-3-fluoropropane	ジブロモフルオロプロパン	453-00-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1,3-Dibromo-2-fluoropropane	ジブロモフルオロプロパン	1786-38-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1,3-Dibromo-1-fluoropropane	ジブロモフルオロプロパン	51584-26-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																
1,2-Dibromo-1-fluoro-(R*,S*)-propane	ジブロモフルオロプロパン	62135-10-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1,2-Dibromo-1-fluoro-(R*,R*)-propane	ジブロモフルオロプロパン	62135-11-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
2-bromo-1,1-difluoro-propane	ブロモジフルオロプロパン	430-87-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1-bromo-1,1-difluoro-propane	ブロモジフルオロプロパン	420-89-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1-bromo-2,2-difluoro-propane	ブロモジフルオロプロパン	420-98-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
2-bromo-1,3-difluoro-propane	ブロモジフルオロプロパン	2195-05-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
3-bromo-1,1-difluoro-propane	ブロモジフルオロプロパン	461-49-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1-bromo-2,3-difluoro-propane	ブロモジフルオロプロパン	111483-20-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1-Bromo-1,1-difluoroethane	ブロモジフルオロプロパン	420-47-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																
1-Bromo-1,1,2,3,3,3-hexafluoropropane	ブロモヘキサフルオロプロパン	2252-78-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																
2-Bromo-1,1,1-trifluoroethane	ブロモトリフルオロエタン	421-06-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Ethene, 2-bromo-1,1-difluoro-	2-ブromo-1,1-ジフルオロ-エタン	359-08-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
Propane, 1-bromo-2-fluoro-	ブromo-2-フルオロプロパン	1871-72-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																
Hydrochlorofluorocarbons (HCFC's), all members	ハイドロクロロフルオロカーボン; HCFC's, すべて			All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	1,1-ジクロロ-1,2,2-トリフルオロエタン	812-04-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,2,2-Trichloro-1,1-difluoroethane	1,2,2-トリクロロ-1,1-ジフルオロエタン	354-21-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	1,2-ジクロロ-1,1,2-トリフルオロエタン	354-23-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,2-Dichloro-1,1-difluoroethane	1,2-ジクロロ-1,1-ジフルオロエタン	1649-08-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,2-Dichloro-1,2-difluoroethane	1,2-ジクロロ-1,2-ジフルオロエタン	431-06-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
2-chloro-1,3-difluoropropane	クロロジフルオロプロパン (HCFC-262)	102738-79-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	ジクロロペンタフルオロプロパン	111512-56-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Tetrachlorodifluoropropane	テトラクロロジフルオロプロパン (HCFC-232)	127564-82-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Trichlorodifluoropropane	トリクロロジフルオロプロパン (HCFC-242)	127564-90-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Trichlorotetrafluoropropane	トリクロロテトラフルオロプロパン	127564-91-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
2,2-Dichloro-1,1,1,3,3-pentafluoropropane	ジクロロペンタフルオロプロパン	128903-21-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Chlorotrifluoroethane	クロロトリフルオロエタン	1330-45-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Tetrachlorofluoropropane	テトラクロロフルオロプロパン (別名: HCFC-241)	134190-49-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Trichlorofluoropropane	トリクロロフルオロプロパン (別名: HCFC-251)	134190-51-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1,2,2-Tetrachloro-1-fluoroethane	テトラクロロフルオロエタン	134237-32-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Trichlorofluoroethane	トリクロロフルオロエタン	134237-34-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Hexachlorofluoropropane	ヘキサクロロフルオロプロパン (別名: HCFC-221)	134237-35-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Pentachlorodifluoropropane	ペンタクロロジフルオロプロパン	134237-36-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Tetrachlorotrifluoropropane	テトラクロロトリフルオロプロパン (別名: HCFC-223)	134237-37-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Trichlorotetrafluoropropane	トリクロロテトラフルオロプロパン	134237-38-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Tetrachlorodifluoropropane	テトラクロロジフルオロプロパン (別名: HCFC-232)	134237-39-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Trichlorotrifluoropropane	トリクロロトリフルオロプロパン (別名: HCFC-233)	134237-40-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Chloropentafluoropropane	クロロペンタフルオロプロパン (別名: HCFC-235)	134237-41-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Trichlorodifluoropropane	トリクロロジフルオロプロパン (別名: HCFC-242)	134237-42-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Dichlorotrifluoropropane	ジクロロトリフルオロプロパン (別名: HCFC-243)	134237-43-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Chlorotrifluoropropane	クロロトリフルオロプロパン (別名: HCFC-253)	134237-44-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Dichlorofluoropropane	ジクロロフルオロプロパン (別名: HCFC-261)	134237-45-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1-Dichloro-1,2,2,3,3-pentafluoropropane	ジクロロペンタフルオロプロパン (別名: HCFC-225)	13474-88-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,3-Dichloro-1,1,2,3,3-pentafluoropropane	ジクロロペンタフルオロプロパン (別名: HCFC-225)	136013-79-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1-Dichloro-1,2-difluoroethane	ジクロロジフルオロエタン	1842-05-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Dichlorofluoroethane	ジクロロフルオロエタン (HCFC-141)	25167-88-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Dichlorodifluoroethane	ジクロロジフルオロエタン (HCFC-132)	25915-78-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Hexachlorofluoropropane		29470-94-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Tetrachlorotrifluoropropane		29470-95-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
2,3-Dichloro-1,1,1-trifluoropropane		338-75-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Trichlorodifluoroethane	トリクロロジフルオロエタン(HCFC-122)	41834-16-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
2-chloro-2-fluoropropane	クロロフルオロプロパン(別名:HCFC-271)	420-44-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,2-Dichloro-1,1,2,3,3-pentafluoropropane	ジクロロペンタフルオロプロパン(別名:HCFC-225)	422-44-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	ジクロロペンタフルオロプロパン(別名:HCFC-225)	127564-92-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																
2,3-Dichloro-1,1,1,2,3-pentafluoropropane	ジクロロペンタフルオロプロパン(別名:HCFC-225)	422-48-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1-Dichloro-2,2,3,3,3-pentafluoropropane	ジクロロペンタフルオロプロパン(別名:HCFC-225)	422-56-0	Prohibited	Parts, materials and sub-materials	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	ジクロロペンタフルオロプロパン(別名:HCFC-225)	431-86-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
3-Chloro-1,1,1-trifluoropropane	3-クロロ-1, 1, 1-トリフルオロプロパン	460-35-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
3,3-Dichloro-1,1,1-trifluoropropane	3, 3-ジクロロ-1, 1, 1-トリフルオロプロパン	460-69-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1-chloro-1,1,3,3,3-pentafluoropropane	1-クロロ-1, 1, 3, 3, 3-ペンタフルオロプロパン	460-92-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	1, 3-ジクロロ-1, 1, 2, 2, 3-ペンタフルオロプロパン(HCFC-225cb)	507-55-1	Prohibited	Parts, materials and sub-materials	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Trichlorotrifluoropropane		61623-04-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
3-Chloro-1,1,2,2-tetrafluoropropane	クロロテトラフルオロプロパン(別名:HCFC-244)	679-85-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1,1-Trichloro-3,3,3-trifluoropropane		7125-83-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1-Dichloro-1,2,2-trifluoropropane		7125-99-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1-Dichloro-1-fluoropropane	ジクロロフルオロプロパン(HCFC-261)	7799-56-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1,3-trichloro-1-fluoropropane	トリクロロフルオロプロパン(HCFC-251)	818-99-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Dichlorodifluoropropane	ジクロロジフルオロプロパン(別名:HCFC-252)	134190-52-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																
Dichlorofluoropropane		127404-11-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
Dichlorotetrafluoropropane	ジクロロテトラフルオロプロパン(別名:HCFC-234)	127564-83-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P	Mandatory																
Dichlorotrifluoropropane		116890-51-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																	
1,2-Dichloro-1-fluoroethane	ジクロロフルオロエタン(HCFC-141)	430-57-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,2-Dichloro-1-fluoroethylene	ジクロロフルオロエタン(HCFC-141)	430-58-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	クロロテトラフルオロエタン(HCFC-124)	354-25-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1-Chloro-1,1-difluoroethane	1-クロロ-1, 1-ジフルオロエタン(HCFC-142b)	75-68-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1-Chloro-1,2-difluoroethylene	クロロジフルオロエタン(HCFC-142)	359-04-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
1-Chloro-1-fluoroethylene	1-クロロ-1-フルオロエタン	2317-91-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
1-Chloro-2-fluoroethylene	1-クロロ-2-フルオロエタン	460-16-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
2-Chloro-1,1-difluoroethylene	2-クロロ-1,1-ジフルオロエタン	359-10-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Chlorodifluoroethanes	クロロジフルオロエタン(HCFC-142)	25497-29-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Chlorodifluoromethane	クロロジフルオロメタン	75-45-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Chlorofluoromethane	クロロフルオロメタン	593-70-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Chlorotetrafluoroethane	クロロテトラフルオロエタン(HCFC-124)	63938-10-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Dichlorofluoromethane	ジクロロフルオロメタン(別名HCFC-21)	75-43-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Dichlorotrifluoroethane	ジクロロトリフルオロエタン(HCFC-123)	34077-87-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Ethane, 1,1,1-trichloro-2-fluoro-	1,1,1-トリクロロ-2-フルオロエタン	2366-36-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Ethane, 1,1,2-trichloro-1-fluoro-	トリクロロフルオロエタン(HCFC-131)	811-95-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Ethane, 1,1,2-trichloro-2-fluoro-	1,1,2-トリクロロ-2-フルオロエタン	359-28-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
Ethane, 1,1-dichloro-1-fluoro-	1,1-ジクロロ-1-フルオロエタン(HCFC-141b)	1717-00-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Ethane, 1,2-difluoro-1,1,2-trichloro-		354-15-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Ethane, 1-chloro-1,2-difluoro-	クロロジフルオロエタン(HCFC-142)	338-64-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Ethane, 2,2-dichloro-1,1,1-trifluoro-	2,2-ジクロロ-1,1,1-トリフルオロエタン(HCFC-123)	306-83-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Ethane, 2-chloro-1,1,1,2-tetrafluoro-	2-クロロ-1,1,1,2-テトラフルオロエタン(別名HCFC-124)	2837-89-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Ethane, chloro-1,1-difluoro-	クロロ-1,1-ジフルオロエタン	55949-44-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
Ethane, monochlorodifluoro-	モノクロロジフルオロエタン	338-65-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
Trichlorofluoroethane	トリクロロフルオロエタン(HCFC-131)	27154-33-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
chlorodifluoropropane	クロロジフルオロプロパン(HCFC-262)	134190-53-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
chlorofluoroethane	クロロフルオロエタン(HCFC-151)	110587-14-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Chlorofluoropropane		134190-54-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
chlorohexafluoropropane	クロロヘキサフルオロプロパン(HCFC-226)	28987-04-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
chloropentafluoropropane		108662-83-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
chlorotetrafluoropropane		134190-50-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
chlorotrifluoropropane		26588-23-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
chloro-1,1,1-trifluoroethane	クロロトリフルオロエタン(別名HCFC-133)	75-88-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Pentachlorodifluoropropane	ペンタクロロジフルオロプロパン	116867-32-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
Pentachlorofluoropropane	ペンタクロロフルオロプロパン(HCFC-231)	134190-48-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1-chloro-1,1,2-trifluoroethane	クロロトリフルオロエタン(HCFC-133)	421-04-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1-chloro-1,2,2-trifluoroethane	クロロトリフルオロエタン(別名HCFC-133)	431-07-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
1,1-Dichloro-2-fluoroethane	1,1-ジクロロ-2-フルオロエタン	430-53-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1,1-Dichloro-2,2-difluoroethane	1,1-ジクロロ-2,2-ジフルオロエタン	471-43-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1,1,1,2-Tetrachloro-2-fluoroethane	テトラクロロフルオロエタン(HCFC-121)	354-11-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1,1,1,2-Tetrachloro-1-fluoroethane	テトラクロロフルオロエタン(HCFC-121)	354-14-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Hydrofluorocarbons (HFC's), all members	ハイドロフルオロカーボン: HFC's, すべて			All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
1,1,1,2,2,3,3-Heptafluoropropane	1,1,1,2,2,3,3-ヘプタフルオロプロパン	2252-84-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
1,1,1,2,3,3-Hexafluoropropane	1,1,1,2,3,3-ヘキサフルオロプロパン	431-63-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1,1,1,2-Tetrafluoroethane	1,1,1,2-テトラフルオロエタン	811-97-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1,1,2,2-Tetrafluoroethane	1,1,2,2-テトラフルオロエタン	359-35-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1,1,2-Trifluoroethane	1,1,2-トリフルオロエタン	430-66-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
1,1-Difluoroethane	1,1-ジフルオロエタン	75-37-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
1,2-Difluoroethane	1,2-ジフルオロエタン	624-72-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Difluoroethane	ジフルオロエタン	25497-28-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Difluoromethane	ジフルオロメタン	75-10-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Ethane, 1,1,1-trifluoro-	1,1,1-トリフルオロエタン	420-46-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Ethane, pentafluoro-	ペンタフルオロエタン	354-33-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Ethyl fluoride	エチルフルオリド	353-36-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Methyl fluoride	フッ化メチル	593-53-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1,1,2,2-Pentafluoropropane	1,1,1,2,2-ペンタフルオロプロパン	1814-88-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
1,1,1,3,3-Pentafluoropropane	1,1,1,3,3-ペンタフルオロプロパン	460-73-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
1,1,1,3,3-Pentafluorobutane	1,1,1,3,3-ペンタフルオロブタン	406-58-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-	1,1,1,2,2,3,4,5,5,5-デカフルオロペンタン	138495-42-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Propane, 1,1,1,2,3,3,3-heptafluoro-	1,1,1,2,3,3,3-ヘプタフルオロプロパン	431-89-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Propane, 1,1,1,3,3,3-hexafluoro-	1,1,1,3,3,3-ヘキサフルオロプロパン	690-39-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Propane, hexafluoro-	ヘキサフルオロプロパン	27070-81-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Trifluoroethane	トリフルオロエタン	27987-06-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Trifluoromethane	トリフルオロメタン	75-46-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																
Vinylidene fluoride	フッ化ビニリデン	75-38-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Indium tin oxide (ITO)		50926-11-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Isodecyl diphenyl phosphate		29761-21-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
4,4'-isopropylidenediphenol		80-05-7	Observation	All applications and products	Relative to the weight of component parts and materials 100	D	Mandatory	●								●		●					
Isopropylphenyl phosphate		68937-41-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Lead and its compounds, all members	鉛およびその化合物、すべて			Note 11) To be prohibited: Applications subject to the ELV and RoHS Directives (for exemptions, refer to Annex II) Note 12) To be reduced: Applications not subject to the ELV and RoHS Directives	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000	D/P																	
Lead and its compounds, all members	鉛およびその化合物、すべて			Note 13) (not subject to the ELV and RoHS Directives) 1a Lead-free cutting steel: 3500 or less 2c Aluminium alloy: 4000 or less 3 Copper alloy: 40000 or less	Same as above	D/P																	
Lead and its compounds, all members	鉛およびその化合物、すべて			Note 14) (not subject to the ELV Directive) 8a Lead contained in solder for connecting electrical and electronic parts with electronic circuit boards [Applies to vehicles and spare parts that received type approval before January 1, 2016]	Same as above	D/P																	
Lead and its compounds, all members	鉛およびその化合物、すべて			Note 15) (not subject to the ELV Directive) 8b Lead contained in solder used in other electrical applications except for solder on electronic circuit boards and glass [Applies to vehicles and spare parts that received type approval before January 1, 2011]	Same as above	D/P																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Lead and its compounds, all members	鉛およびその化合物、すべて			Note 16) (Not subject to the ELV Directive) 8c Lead contained in terminal finish for aluminum electrolytic condensers [Applies to vehicles and spare parts that received type approval before January 1, 2013]	Same as above	D/P																	
Lead and its compounds, all members	鉛およびその化合物、すべて			Note 17) (not subject to the ELV and RoHS Directives) 8e Lead contained in high melting solder (alloys containing 85% or more of lead by weight)	Same as above	D/P																	
(2-Ethylhexanoato-O)(isodecanoato-O)lead	(2-エチルヘキサン酸-O)(イソデカン酸-O) 鉛	94246-92-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(2-Ethylhexanoato-O)(isononanoato-O)lead	(2-エチルヘキサン酸-O)(イソノナン酸-O) 鉛	94246-91-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(2-Ethylhexanoato-O)(isooctanoato-O)lead	(2-エチルヘキサン酸-O)(イソオクタン酸-O) 鉛	94246-90-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(2-Ethylhexanoato-O)(neodecanoato-O)lead	(2-エチルヘキサン酸-O)(ネオデカン酸-O) 鉛	94246-93-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(isodecanoato-O)(isononanoato-O)lead	(イソデカン酸-O)(イソノナン酸-O) 鉛	94246-86-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(isodecanoato-O)(isooctanoato-O)lead	(イソデカン酸-O)(イソオクタン酸-O) 鉛	94246-85-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(isodecanoato-O)(neodecanoato-O)lead	(イソデカン酸-O)(ネオデカン酸-O) 鉛	94246-87-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(isononanoato-O)(isooctanoato-O)lead	(イソノナン酸-O)(イソオクタン酸-O) 鉛	94246-84-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(isononanoato-O)(neodecanoato-O)lead	(イソノナン酸-O)(ネオデカン酸-O) 鉛	94481-58-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
(Neononanoato-O)(neoundecanoato-O)lead	(ネオノナン酸-O)(ネオウンデカン酸-O) 鉛	93894-64-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
alpha-D-Glucopyranose, 1-(dihydrogen phosphate), lead salt	アルファ-D-グルコピラノース,1-リン酸,鉛	68901-12-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
[μ-(4,6-Dinitroresorcinolato(2-O1,O3))]dihydroxydilead	[μ-(4,6-ジニトロレゾルシン酸(2-O1,O3))二水酸化二鉛	84837-22-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
[μ-[[5,5'-Azobis[1H-tetrazolato]](2-))]dihydroxydilead	[μ-[[5,5'-アゾビス[1H-テトラゾラト]](2-))]二水素二鉛	94015-57-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead salt	1,2,3-プロパントリカルボキシラート,2-ヒドロキシ-,鉛	14450-60-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3)	クエン酸鉛	512-26-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3), trihydrate	クエン酸鉛(Ⅱ)三水合物	6107-83-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
1,2-Benzenedicarboxylic acid, lead(2+) salt	1,2-ベンゼンジカルボキシル酸鉛	18608-34-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
1,2-Benzenedicarboxylic acid, lead(2+) salt, basic	塩基性1,2-ベンゼンジカルボン酸鉛(Ⅱ)塩	90193-83-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
1,3,5,7,9-Pentaoxa-2,lambda.2,4,lambda.2,6,lambda.2,8,lambda.a,2-tetraplumbacyclotridec-11-ene-10,13-dione, (Z)-	マレイン酸鉛(Ⅱ)三塩基性	12275-07-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
1,3,5-Triazine-2,4,6-(1H,3H,5H)-trione, lead salt	1,3,5-トリアジン-2,4,6-(1H,3H,5H)-トリオン鉛塩	54554-36-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
1,3-Benzenediol, 2,4,6-trinitro-, lead salt/Lead styphnate	スチフニ酸鉛	15245-44-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●		●				●	
1,3-Benzenediol, nitro-, lead(2+) salt (1:1)	1,3-ベンゼンジオラート,ニトロ-,lead(2+)salt(1:1)	70268-38-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
2,4-Cyclohexadien-1-one, 3,5,6-trihydroxy-4,6-bis(3-methyl-2-butenyl)-2-(3-methyl-2-oxobutyl)-, lead salt, (R)-	2,4-ジクロヘキサジエン-1-オン,3,5,6-トリヒドロキシ-4,6-ビス(3-メチル-2-ブテンニル)-2-(3-メチル-2-オキソブチル)-,鉛,(R)-	68901-11-1	Prohibited Reduced		Same as above	D/P		●	●							●							
2-Butenedioic acid (E)-, lead salt	((E)-2-ブテン二酸)ジアンイオン,鉛	13698-55-0	Prohibited Reduced		Same as above	D/P		●	●							●							
2-Butenedioic acid (E)-, lead(2+) salt, basic	塩基性2-ブテン酸鉛	90268-59-0	Prohibited Reduced		Same as above	D/P		●	●							●							
2-Butenedioic acid (Z)-, lead(2+) salt, basic	塩基性2-フマル酸(Z)鉛塩	90268-66-9	Prohibited Reduced		Same as above	D/P		●	●							●							
2-Propenoic acid, 2-methyl-, lead salt, basic	2-メチル-2-プロペン酸鉛塩	90552-19-5	Prohibited Reduced		Same as above	D/P		●	●							●							
2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, lead(2+) bis(2-methyl-2-propenoate) and .alpha.-(2-methyl-1-oxo-2-propenyl)-,omega-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanedilyl)	ビス(2-メチル-2-プロペン酸)鉛(II)とα-(2-メチル-1-オキソ-2-プロペニル)-ω-[(2-メチル-1-オキソ-2-プロペニル)オキソ]ポリ(オキソ-1,2-エタンジイル)の2-メチル-2-プロペン酸メチルエステルエチルベンゼンポリマー(エチレンジイル)	68155-47-5	Prohibited Reduced		Same as above	D/P		●	●							●							
3-(Triphenylplumbyl)-1H-pyrazole	3-(トリフェニルプルンビル)-1H-ピラゾール	51105-45-4	Prohibited Reduced		Same as above	D/P		●	●														
7,11-Metheno-11H,13H-tetrazolo[1,5-c][1,7,3,5,2,6]dioxadiazaplumbacyclodocine, 5,5,13,13-tetrahydro-4,5-dihydro-4,8,10,15-tetranitro-	7,11-メタノ-11H,13H-テトラゾロ[1,5-c][1,7,3,5,2,6]ジオキサジアプラムバシクロドセン,5,5,13,13-テトラヒドロ-4,5-ジヒドロ-4,8,10,15-四硝酸	19651-80-0	Prohibited Reduced		Same as above	D/P		●	●							●							
7-Methyloctanoic acid, lead salt	7-メチルオクタノ酸,鉛	97952-39-1	Prohibited Reduced		Same as above	D/P		●	●							●							
9-Hexadecenoic acid, lead(2+) salt, (Z)-, basic	塩基性9-ヘキサデセン酸鉛(II)塩	90388-15-1	Prohibited Reduced		Same as above	D/P		●	●							●							
9-Octadecenoic acid (Z)-, lead salt	オレイン酸鉛(混合)	15347-55-4	Prohibited Reduced		Same as above	D/P		●	●							●							
9-Octadecenoic acid (Z)-, lead salt, basic	塩基性9-オクタデカン酸鉛(II)塩	90459-88-4	Prohibited Reduced		Same as above	D/P		●	●							●							
Acetic acid, lead salt, basic	塩基性酢酸鉛	51404-69-4	Prohibited Reduced		Same as above	D/P		●	●							●		●					
Acetoxytributylplumbane	アセトキシトリブチルプルンパン	2587-82-8	Prohibited Reduced		Same as above	D/P		●	●														
Acetoxytrimethylplumbane	酢酸トリメチル鉛	5711-19-3	Prohibited Reduced		Same as above	D/P		●	●							●							
Acetoxytriphenylplumbane	アセトキシトリフェニルプルンパン	1182-06-7	Prohibited Reduced		Same as above	D/P		●	●							●							
Basic lead sulfite	塩基性亜硫酸鉛	12608-25-2	Prohibited Reduced		Same as above	D/P		●	●							●							
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives, lead(2+) salts	ベンゼンスルホン酸鉛(II)塩(炭素数10-13の炭化水素化合物誘導体)	84961-75-1	Prohibited Reduced		Same as above	D/P		●	●							●							
Bis(diethylthiocarbamate-S,S')lead	ビス(ジエチルジチオカルバミド酸)鉛	17549-30-3	Prohibited Reduced		Same as above	D/P		●	●							●							
Bis(o-acetoxybenzoato)lead	ビス(o-アセトキシ安息香酸)鉛	62451-77-8	Prohibited Reduced		Same as above	D/P		●	●							●							
Bis(pentane-2,4-dionato-O,O')lead	ビス(2,4-ペンタンジオナト)鉛(II)	15282-88-9	Prohibited Reduced		Same as above	D/P		●	●							●							
Bismuth lead ruthenium oxide	酸化ビスマス鉛ルテニウム	65229-22-3	Prohibited Reduced		Same as above	D/P		●	●							●							
Bismuth, compound with lead (1:1)	ビスマス,鉛	12048-28-1	Prohibited Reduced		Same as above	D/P		●	●							●							
Butanedioic acid, 2,3-dihydroxy- [R-(R*,R*)]-, lead(2+) salt (1:1)	酒石酸鉛(II)	815-84-9	Prohibited Reduced		Same as above	D/P		●	●							●							
Carbamodithioic acid, ethylphenyl-, lead(2+) salt	ビス(エチル(フェニル)カルバモジチオ酸)鉛	93892-65-0	Prohibited Reduced		Same as above	D/P		●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Carbonic acid, lead(2+) salt	炭酸鉛(Ⅱ)	25510-11-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Castor oil, dehydrated, polymer with rosin, calcium lead zinc salt	合成樹脂原料となる脱水化したひまし油のカルシウム鉛亜鉛油	68604-05-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Chlorotrimethylplumbane	クロロトリメチルプルンバン	1520-78-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Chlorotriphenylplumbane	塩化トリフェニル鉛	1153-06-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Chromium lead oxide sulfate, silica-modified	変性ケイ酸硫酸クロム酸鉛	116565-74-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Copper, .beta.-resorcylate salicylate lead complexes	β-レゾルシン酸サリチル酸鉛銅の混合物	68411-07-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Cyclohexanebutanoic acid, lead(2+) salt	シクロヘキサブタン酸鉛(Ⅱ)塩	62637-99-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Decanoic acid, branched, lead salts	分岐型デカン酸鉛塩	90342-24-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Decanoic acid, lead salt	セバシン酸鉛(混合)	20403-42-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Diacetoxypheylplumbane	ジアセトキシフェニル鉛酸塩	6928-68-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Diamylidithiocarbamate, lead	ジアミルジチオカルバミン酸鉛	109707-90-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Diantimony lead tetroxide	ニアンチモン鉛四酸化物	16450-50-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Dibasic lead stearate	トリスチアリン酸二鉛	56189-09-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Dibismuth dilead tetraruthenium tridecaoxide	ニビスマスニ鉛三ルテニウム三デカオキシド	11116-83-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Dilead dirhodium heptaoxide	二鉛二ロジウム七酸化物	37240-96-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Diphenyllead dichloride	ジフェニル鉛ジクロリド	2117-69-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Diplumbane, hexaethyl-	ヘキサエチル二鉛酸塩	2388-00-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Diplumbane, hexaphenyl-	ヘキサフェニル二鉛酸塩	3124-01-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Docosanoic acid, lead salt	ドコサン酸鉛	3249-61-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Dodecanoic acid, lead salt, basic	塩基性ドデカン酸鉛塩	90342-56-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Dodecanoic acid, lead(2+) salt	ラウリン酸鉛(Ⅱ)	15773-55-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Fatty acids, C12-18, lead salts	脂肪酸鉛塩(炭素数12-18)	68131-60-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Fatty acids, C14-26, lead salts	脂肪酸鉛塩(炭素数C14-26)	93165-26-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Fatty acids, C16-18, lead salts	脂肪酸鉛塩(炭素数C16-18)	91031-62-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●								●	●					
Fatty acids, C18-24, lead salts	脂肪酸鉛塩(炭素数18-24)	84776-54-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Fatty acids, C4-20-branched, lead salts	脂肪酸鉛の塩(炭素数4-20)	125328-49-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C6-19-branched, lead salts	分岐型脂肪酸鉛塩(炭素数6-19)	91002-20-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C8-10, lead salts	脂肪酸鉛塩(炭素数8-10)	91031-61-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C8-10-branched, lead salts	分岐型脂肪酸鉛塩(炭素数8-10)	85049-42-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C8-10-branched, lead salts, basic	塩基性鉛の脂肪酸(炭素数8-10の分枝型)	68409-79-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C8-12, lead salts	脂肪酸鉛塩(炭素数8-12)	84776-53-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C8-18 and C18-unsaturated, lead salts	脂肪酸鉛塩(炭素数8-18及び18個の不飽和物)	84776-36-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C8-9, lead salts	脂肪酸鉛塩(炭素数8-9)	91031-60-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C9-11-branched, lead salts	分岐型脂肪酸(炭素数9-11)鉛塩	81412-57-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, castor-oil, hydrogenated, lead salts	水素化したひまし油の脂肪酸鉛塩	91697-36-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, coco, lead salts	ヤシ油の脂肪酸鉛塩	92044-89-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, tall-oil, lead manganese salts	脂肪酸トール油鉛マンガニン塩	61788-53-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, tall-oil, lead salts	脂肪酸トール油鉛塩	61788-54-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, tallow, reaction products with lead oxide	酸化鉛により反応生成される獣脂の脂肪酸	94349-78-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Flue dust, lead blast furnace	鉛高炉中の煙塵	70514-05-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Formic acid, lead salt	ギ酸鉛塩	7056-83-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Giisonite, polymer with linseed oil, lead salt	アマニ油ポリマーのギルソナイト鉛塩	68989-89-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, lead(2+) sodiums salt (1:1:2)]	N,N'-1,2-エタンジイル[N-(カルボキシメチル)グリシン,鉛(Ⅱ),ナトリウム(1:1:2)]	22904-40-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Hafnium lead trioxide	酸化鉛ハフニウム	12029-23-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Hexacosanoic acid, lead salt	ヘキサコサン酸鉛塩	94006-20-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Hexadecanoic acid, lead salt, basic	塩基性ヘキサデカン酸鉛塩	90388-09-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Hexadecanoic acid, lead(2+) salt, basic	塩基性ヘキサデカン酸鉛(Ⅱ)塩	90388-10-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Hexanoic acid, 2-ethyl-, lead(2+) salt	2-エチルヘキサン酸鉛(Ⅱ)	301-08-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Hexanoic acid, 3,5,5-trimethyl-, lead salt	3,5,5-トリメチルヘキサン酸鉛(混合)	23621-79-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Hydroxy(neodecanoato-O)lead	ネオデカン酸水酸化鉛	71753-04-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Iron lead oxide (Fe12PbO19)	酸化鉄鉛 (Fe12PbO19)	12023-90-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Isodecanoic acid, lead salt, basic	塩基性イソデカン酸鉛塩	90431-14-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Isodecanoic acid, lead(2+) salt, basic	塩基性イソデカン酸鉛(Ⅱ)塩	91671-82-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Isononanoic acid, lead salt	イソノナン酸鉛(混合)	27253-41-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Isononanoic acid, lead salt, basic	塩基性イソノナン酸鉛塩	90431-21-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Isooctanoic acid, lead salt	イソオクタン酸鉛(混合)	64504-12-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Isooctanoic acid, lead salt, basic	塩基性イソオクタン酸鉛塩	90431-26-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Isooctanoic acid, lead(2+) salt, basic	塩基性イソオクタン酸鉛(Ⅱ)塩	91671-83-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Isoundecanoic acid, lead(2+) salt, basic	塩基性イソウンデカン酸鉛(Ⅱ)塩	91671-84-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lauric acid, lead salt	ラウリン酸鉛(混合)	15306-30-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Leach residues, lead slag	鉛スラグ中の鉛残留物	69029-71-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead	鉛	7439-92-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●								
Lead (II) acetate, trihydrate	酢酸鉛三水合物	6080-56-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●								
Lead (II) methylthiolate	メチルチオール酸鉛(Ⅱ)	35029-96-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead (IV) acetate	酢酸鉛(Ⅳ)	546-67-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead 12-hydroxyoctadecanoate	12-ヒドロキソクタデカン酸鉛	65127-78-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead 2,4-dihydroxybenzoate	2,4-ジヒドロキシ安息香酸鉛(混合)	20936-32-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead 2-ethylhexoate	2-エチルヘキサン酸鉛(混合)	16996-40-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead 3-(acetamido)phthalate	3-(アセトアミド)フタル酸鉛	93839-98-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead 5-nitroterephthalate	5-ニトロテレフタル酸鉛	60580-60-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead acetate	酢酸鉛(混合)	15347-57-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead acetate	酢酸鉛(混合)	301-04-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●		●				●		
Lead acrylate	アクリル酸鉛	14466-01-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead alloy, dross	ドross中の鉛合金	69011-59-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead alloy, Pb,Sn, dross	はんだドrossの鉛合金	69011-60-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Lead antimonate	アンチモン酸鉛	13510-89-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead antimonide	アンチモン鉛	12266-38-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead azide	アジ化鉛(Ⅱ)	13424-46-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●									●				●	
Lead benzoate	安息香酸鉛(混合)	15907-04-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(12-hydroxystearate)	リシノール酸鉛	58405-97-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(2-ethylhexanoate)	鉛(Ⅱ)ビス(2-エチル-1-ヘキサノート)	93840-04-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(3,5,5-trimethylhexanoate)	鉛(Ⅱ)ビス(3,5,5-トリメチルヘキサン酸)	35837-70-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(5-oxo-DL-prolinate)	鉛(Ⅱ)ビス(5-オキソ-ピロリジンカルボン酸)	85392-78-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(5-oxo-L-prolinate)	鉛(Ⅱ)ビス(5-オキソ-L-プロリン)	85392-77-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(isononanoate)	鉛(Ⅱ)ビス(イソノナン酸)	52847-85-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(isoundecanoate)	イソウンデカン酸鉛(Ⅱ)	93965-29-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(nonylphenolate)	ノニルフェノール鉛(Ⅱ) 塩	72586-00-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(piperidine-1-carbodithioate)	ビス(1-ピペリジンカルボジチオアト-S,S') 鉛	41556-46-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(p-octylphenolate)	ビス(p-オクチルフェノール) 鉛	84394-98-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(tetracosylbenzenesulphonate)	ビス(テトラコシルベンゼンスルホン酸) 鉛	85865-91-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis(tricosanoate)	ビス(トリコサン酸) 鉛	93966-37-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bis[didodecylbenzenesulphonate]	ビス(ジドデシルベンゼンスルホン酸) 鉛	85865-92-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead borate	ホウ酸鉛(Ⅱ)	14720-53-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead b-resorcyate	2,4-ジヒドロキシ安息香酸鉛(Ⅱ)	41453-50-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead bromide (PbBr2)	臭化鉛(Ⅱ)	10031-22-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead carbonate	炭酸鉛(Ⅱ)	598-63-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●								●						
Lead chloride	塩化鉛(Ⅱ)	7758-95-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead chloride (V.A.N.)	塩化鉛(V.A.N.)	12612-47-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead chloride oxide	塩化鉛酸化物	12205-72-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						
Lead cyanamidate	シアナミド鉛	20890-10-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●								●						

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Lead cyanamide	シアナミド鉛(Ⅱ)	20837-86-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●						
Lead cyanamide	シアナミド鉛(Ⅱ)	35112-70-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead cyanide	シアン化鉛(Ⅱ)	592-05-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dibenzoate	安息香酸鉛	873-54-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dibromate	二臭素酸鉛(Ⅱ)	34018-28-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dibutanolate	鉛(Ⅱ)ジ(1-ブタノラート)	65119-94-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dibutyrate	酪酸鉛	819-73-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead didocosanoate	ビス(ドコサン酸)鉛(Ⅱ)	29597-84-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dihexanoate	カブロン酸鉛(Ⅱ)	15773-53-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dilactate	乳酸鉛(Ⅱ)	18917-82-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dilinoleate	ビス(9Z,12Z)-9,12-オクタデカジエン酸)鉛(Ⅰ)	33627-12-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dimethyldithiocarbamate	ジメチルジチオカルバミン酸鉛	19010-66-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dimyristate	ミスチン酸鉛	32112-52-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dipalmitate	パルミチン酸鉛	15773-56-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead diposphinate	ホスフィン酸鉛(Ⅱ)	10294-58-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead dipicrate	ニピクリン酸鉛	6477-64-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●		●						
Lead dipropionate	ジプロパン酸鉛(Ⅱ)	814-70-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead disulphamidate	ビス(アミド硫酸)鉛(Ⅱ)	13767-78-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead disulphide	硫化鉛	12137-74-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead diundec-10-enoate	ビス(10-ウンデセン酸)鉛(Ⅱ)	94232-40-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead fluoborate	テトラフルオロホウ酸鉛(Ⅱ)	13814-96-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●		●						
Lead fluoride	フッ化鉛	7783-46-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead fluoride hydroxide	水酸化フッ酸鉛	97889-90-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead fluorosilicate	ケイフッ化鉛二水和物	25808-74-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●					●			
Lead formate	ギ酸鉛	811-54-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Lead germanate	ゲルマニウム鉛	12435-47-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead hexafluorosilicate	ヘキサフルオロケイ酸鉛(Ⅱ)	1310-03-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead hydroxide	水酸化鉛	19783-14-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead hydroxide	水酸化鉛	39345-91-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead hydroxide nitrate	水酸化鉛窒化物	12268-84-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead hydroxysalicylate	水酸化サリチル酸鉛	87903-39-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead icosanoate	イコサン酸鉛	94266-32-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead icosanoate (1:2)	イコサン酸鉛( 2:1)	94266-31-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead iodate	ヨウ素酸鉛	25659-31-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead iodide	ヨウ化鉛	10101-63-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead isophthalate	イソフタル酸鉛	38787-87-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead linoleate	リノール酸鉛	16996-51-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead malate	ヒドロキシブタン二酸鉛	816-68-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead maleate	(Z)-2-ブテン二酸塩	19136-34-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●														
Lead methacrylate	ビスメタクリル酸鉛(Ⅱ)	1068-61-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead methacrylate	ビスメタクリル酸鉛(Ⅰ)	52609-46-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead molybdate	モリブデン酸鉛(Ⅱ)	10190-55-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead monoxide	一酸化鉛	1317-36-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead myristate	テトラデカン酸、鉛	20403-41-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead naphthalate	シクロヘキサンカルボン酸鉛	50825-29-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead naphthenate	ナフテン酸鉛	61790-14-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead neobate	ニオブ酸鉛(Ⅱ)	12034-88-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead neodecanoate	ネオデカン酸鉛(混合)	27253-28-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead nitrate	硝酸鉛	10099-74-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead nitroresorcinate	ニトロレゾルシン酸鉛	51317-24-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Lead oleate	オレイン酸鉛	1120-46-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead oxalate	シュウ酸鉛(Ⅱ)	814-93-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead oxide	酸化鉛	1335-25-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead oxide (Pb2O)	酸化鉛	12059-89-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead oxide (PbO), lead-contg.	鉛含有の酸化鉛	68411-78-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead oxide (PbO), retort	溶融物中の酸化鉛	69029-53-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead oxide phosphonate (Pb3O2(HPO3))	二塩基性リン酸鉛	12141-20-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead oxide phosphonate, hemihydrate	ホスホン酸鉛(Ⅱ)	1344-40-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead oxide sulfate	酸化硫酸鉛	12765-51-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead oxide sulfate (Pb2O(SO4))	一塩基性硫酸鉛	12036-76-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead oxide sulfate (Pb4O3(SO4))	三塩基性硫酸鉛	12202-17-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead oxide sulfate (Pb5O4(SO4))	硫酸四酸化五鉛	12065-90-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead palmitate	パルミチン酸鉛(混合)	19528-55-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead pentadecanoate	ペンタデカン酸鉛(混合)	93966-74-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead perchlorate	過塩素酸鉛(Ⅱ)	13637-76-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●							
Lead peroxide	二酸化鉛	1309-60-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●							
Lead phosphate	リン酸鉛	7446-27-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●						●	
Lead phthalate	フタル酸鉛	16183-12-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead phthalate	フタル酸鉛	6838-85-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead picrate	ピクリン酸鉛	25721-38-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead propionate	プロピオン酸鉛	42558-73-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead pyrophosphate	ピロリン酸鉛	13453-66-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead ruthenium oxide (PbRuO3)	ルテニウム酸鉛	37194-88-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead sebacate	セバシン酸鉛	29473-77-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead selenate	セレン酸鉛(Ⅱ)	7446-15-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Lead selenide (PbSe)	セレン化鉛(Ⅱ)	12069-00-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	P	Mandatory	●	●							●							
Lead selenite	亜セレン化鉛	7488-51-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead silicate	ケイ酸鉛	11120-22-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●		●					
Lead silicate	ケイ酸鉛	13566-17-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead silicate	ケイ酸鉛	22569-74-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead silicate sulfate	硫化ケイ酸鉛	12687-78-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead silicate sulfate	硫化ケイ酸鉛	67711-86-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead stearate	ステアリン酸鉛(C18H36O2.xPb)	7428-48-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead stearate dibasic	二塩基性ステアリン酸鉛	52652-59-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead subacetate	塩基性酢酸鉛	1335-32-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●						●	
Lead succinate	コハク酸鉛	1191-18-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead sulfate	硫酸鉛(SO4 xPb)	15739-80-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●							
Lead sulfate	硫酸鉛(SO4 xPb)	7446-14-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●							
Lead sulfate, tribasic	塩基性硫酸鉛	12397-06-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead sulfide (PbS)	硫化鉛	1314-87-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●							
Lead sulfomolybdochromate, silica encapsulated	ケイ酸スルホモルクロム酸鉛	116565-73-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead tantalate	タンタル酸鉛(Ⅱ)	12065-68-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead telluride	テルル化鉛(Ⅱ)	1314-91-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead tellurite	亜テルル酸鉛	13845-35-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead tetrachloride		13463-30-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead tetracosanoate	テトラコサン酸鉛(混合)	93966-38-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead tetraoxide	酸化鉛	1314-41-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead thiocyanate	チオシアン酸鉛(Ⅱ)	592-87-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead thiosulfate	チオ硫酸鉛	13478-50-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead tin oxide (PbSnO3)	酸化スズ鉛	12036-31-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Lead titanium oxide (PbTiO3)	チタン酸鉛	12060-00-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●						
Lead titanium zirconium oxide (Pb(Ti,Zr)O3)	ジルコン酸チタン酸鉛	12626-81-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●						
Lead trioxide	三酸化鉛(IV)鉛(Ⅱ)	1314-27-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead tungsten oxide	タングステン酸鉛(Ⅱ)	7759-01-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead tungsten oxide	タングステン酸鉛(Ⅱ)	12737-98-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead vanadate	バナジウム酸鉛	10099-79-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead zirconate	ジルコン酸鉛(Ⅱ)	12060-01-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) (R)-12-hydroxyoleate	リシノール酸鉛(Ⅱ)	13094-04-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) (Z)-hexadec-9-enoate	(Z)-ヘキサデク-9-エノート鉛(Ⅱ)	93858-24-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) 2,4-dinitroresorcinolate	2,4-ジニトロレソルシン酸鉛(Ⅱ)	13406-89-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) 4-(1,1-dimethylethyl)benzoate	4-(1,1-ジメチルエチル)安息香酸鉛(Ⅱ)	85292-77-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) 4,4'-isopropylidenebisphenolate	4,4'-イソプロピリデンビスフェノール酸鉛	93858-23-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) 4,6-dinitro-o-cresolate	4,6-ジニトロ-ο-クレゾール酸鉛	65121-76-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) acrylate	アクリル酸鉛	867-47-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) decanoate	デカン酸鉛(Ⅱ)	15773-52-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) heptadecanoate	ヘプタデカン酸鉛(Ⅱ)	63399-94-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) isohexadecanoate	イソヘキサデカン酸鉛(Ⅱ)	95892-13-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) isooctadecanoate	イソステアリン酸鉛(Ⅱ)	70727-02-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) neodecanoate	ネオデカン酸鉛(Ⅱ)	71684-29-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) neononanoate	ネオノナン酸鉛(Ⅱ)	93894-48-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) neoundecanoate	ネオウンデカン酸鉛(Ⅱ)	93894-49-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(2+) octanoate	オクタン酸鉛(Ⅱ)	7319-86-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(4+) stearate	ステアリン酸鉛(Ⅳ)	7717-46-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(Ⅱ) fumarate	フマル酸鉛(Ⅱ)	71686-03-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								
Lead(Ⅱ) isodecanoate	イソデカン酸鉛(Ⅱ)	84852-34-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●								



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Lead(II) isoctanoate	イソオクタン酸鉛(Ⅱ)	93981-67-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead(II) maleate	マレイン酸鉛(Ⅱ)	17406-54-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead(IV) fluoride	フッ化鉛(Ⅳ)	7783-59-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, (2-methyl-4,6-dinitrophenolato-O1)(nitrate-O)-.mu.-oxodi-, monohydrate	μ-オキソジ-(2-メチル-4,6-ジニトロフェノラト-O1)(ニترات-O) 鉛-水和物	79357-62-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, [.mu.-[1,2-benzenedicarboxylato(2-)-O1:O2]]di-.mu.-oxotri-, cyclo-	シクロ[1,2-ベンゼンジカルボキシラト(2-)]ジオキソ三鉛	17976-43-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, [1,2-benzenedicarboxylato(2-)]dioxotri-	フタル酸二オキソ三鉛	69011-06-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead, [1,2-benzenedicarboxylato(2-)]oxodi-	二塩基性フタル酸鉛	57142-78-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	フタロシアニン鉛	15187-16-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, 2-ethylhexanoate isodecanoate complexes, basic	塩基性2-エチルヘキサン酸、イソデカン酸混合物中の鉛	90431-30-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, 2-ethylhexanoate isononanoate complexes, basic	塩基性2-エチルヘキサン酸、イソノナン酸混合物中の鉛	90431-31-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, 2-ethylhexanoate isoctanoate complexes, basic	塩基性2-エチルヘキサン酸、イソオクタン酸混合物中の鉛	90431-32-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, 2-ethylhexanoate naphthenate complexes	2-エチルヘキサン酸、ナフテン酸混合物中の鉛	90431-33-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, 2-ethylhexanoate naphthenate complexes, basic	塩基性2-エチルヘキサン酸、ナフテン酸混合物中の鉛	90431-34-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, 2-ethylhexanoate neodecanoate complexes, basic	塩基性2-エチルヘキサン酸、ネオデカン酸混合物中の鉛	90431-35-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, 2-ethylhexanoate tall-oil fatty acids complexes	鉛含有の2-エチルヘキサン酸と脂肪酸トール油の混合物	68187-37-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, alkyls, manufacturing wastes	廃鉱石中のアルキル鉛	70513-89-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, antimonial	アンチモン化鉛	69029-50-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, antimonial, dross	ドross中のアンチモン化鉛	69029-51-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, bis(2-hydroxybenzoato-O1,O2)-, (T-4)-	ビス(2-ヒドロキシベンゾアト)-鉛	15748-73-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, bis(dipentylcarbamodithioato-S,S)-, (T-4)-	ビス(ジペンチルカルバモジチオエート-S,S')鉛	36501-84-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, bis(diphenylcarbamodithioato-S,S)-, (T-4)-	ビス(ジフェニルチオカルバミン酸)鉛	75790-73-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, bis(octadecanoato)dioxotri-	ジオキソビス(ステアリン酸)三鉛	12565-18-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, bis(octadecanoato)dioxotri-	ジオキソビス(ステアリン酸)三鉛	12578-12-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Lead, bullion	金鉱石中の鉛	97808-88-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C3-13-fatty acid naphthenate complexes	脂肪酸(炭素数3-13)とナフテン酸混合物との鉛化合物	79803-79-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Lead, C4-10-fatty acid naphthenate complexes	脂肪酸(炭素数4-10)、ナフテン酸混合物中の鉛	84067-00-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C4-10-fatty acid octanoate complexes	脂肪酸(炭素数4-10)、オクタン酸混合物中の鉛	92200-92-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C5-23-branched carboxylate C4-10-fatty acid complexes	分岐型カルボン酸(炭素数5-23)、脂肪酸(炭素数4-10)混合物中の鉛	84066-98-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C5-23-branched carboxylate C4-10-fatty acid naphthenate complexes	分岐型カルボン酸(炭素数5-23)、脂肪酸(炭素数4-10)、ナフテン酸の混合物の鉛塩	83711-45-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C5-23-branched carboxylate naphthenate complexes	分岐型カルボン酸(炭素数5-23)、ナフテン酸の混合物の鉛塩	83711-46-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C5-23-branched carboxylate naphthenate octanoate complexes	分岐型カルボン酸(炭素数5-23)、ナフテン酸、オクタン酸の混合物の鉛塩	83711-47-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C5-23-branched carboxylate octanoate complexes	分岐型カルボン酸(炭素数5-23)、オクタン酸混合物中の鉛	84066-99-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C6-19-branched carboxylate naphthenate complexes	分岐型カルボン酸(炭素数6-19)とナフタレン酸の混合物中の鉛	70084-67-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes	分岐型脂肪酸(炭素数8-10)、新脂肪酸(炭素数9-11)、ナフテン酸混合物中の鉛	90431-28-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes, overbased	分岐型脂肪酸(炭素数8-10)、新脂肪酸(炭素数9-11)、ナフテン酸混合物中の鉛(過塩基性)	90431-27-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, C9-28-neocarboxylate 2-ethylhexanoate complexes, basic	塩基性鉛、ネオカルボキシル酸(炭素数9-28)と2-エチルヘキサン酸混合物	125494-56-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, decanoate octanoate complexes	デカン酸とオクタン酸混合物中の鉛	70321-55-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, di-mu.-hydroxy(2-methyl-4,6-dinitrophenolato-O1)(nitrate-O)di-	ジ-μ-ヒドロキシ(2-メチル-4,6-ジニトロフェノール酸-O1)(硝酸-O)二鉛	96471-22-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, dihydroxy[2,4,6-trinitro-1,3-benzenediolato(2-)]di-	ジヒドロキシ[2,4,6-トリニトロ-1,3-ベンゼンジオリト(2-)]二鉛	12403-82-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, dross	ドロス中の鉛	69029-52-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, dross, antimony-rich	アンチモン豊富な鉛入りドロス	69029-45-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, dross, bismuth-rich	ビスマス豊富な鉛入りドロス	69029-46-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, dross, copper-rich	銅豊富なドロス中の鉛	69227-11-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, dross, vanadium-zinc-containing	バナジウム-亜鉛合金に含有するドロス状鉛	100656-49-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isodecanoate isononanoate complexes, basic	塩基性イソデカン酸、イソノナン酸混合物中の鉛	90431-36-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isodecanoate iso-octanoate complexes, basic	塩基性イソデカン酸、イソオクタン酸混合物中の鉛	90431-37-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isodecanoate naphthenate complexes	イソデカン酸、ナフテン酸混合物中の鉛	90431-38-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isodecanoate naphthenate complexes, basic	イソデカン酸鉛とナフテン酸鉛の混合物	101012-92-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isodecanoate neodecanoate complexes, basic	塩基性イソデカン酸、ネオデカン酸混合物中の鉛	90431-39-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isononanoate iso-octanoate complexes, basic	塩基性イソノナン酸とイソオクタン酸混合物の鉛	84929-94-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Lead, isononanoate naphthenate complexes	イソノナン酸とナフテン酸混合物の鉛	84929-97-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isononanoate naphthenate complexes, basic	塩基性イソデカン酸、ナフテン酸混合物中の鉛	90431-40-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isononanoate neodecanoate complexes, basic	塩基性イソデカン酸、ネオデカン酸混合物中の鉛	90431-41-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isoocetanoate naphthenate complexes	イソオクタン酸とナフテン酸の混合物にある鉛	68515-80-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isoocetanoate naphthenate complexes, basic	塩基性イソデカン酸、ナフテン酸混合物中の鉛	90431-42-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isoocetanoate neodecanoate complexes	イソデカン酸鉛とナフテン酸鉛の混合物	101013-06-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, isoocetanoate neodecanoate complexes, basic	塩基性イソオクタン酸とネオデカン酸混合物	84929-95-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, naphthenate neodecanoate complexes	ナフテン酸、ネオデカン酸混合物中の鉛	90431-43-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, naphthenate neodecanoate complexes, basic	塩基性ナフテン酸とネオデカン酸混合物の鉛	84929-96-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, neononanoate neoundecanoate complexes, basic	塩基性ネオノナン酸、ネオウンデカン酸混合物中の鉛	90431-44-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, zinc dross	亜鉛ドross中の鉛	94551-60-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Linseed oil, polymer with tung oil, lead salt	きり油ポリマーのアマニ油鉛塩	68990-75-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Linseed oil, reaction products with lead oxide (Pb3O4) and mastic	反応生成により酸化鉛(Pb3O4)を含むあまに油やしくい	68152-99-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Methanesulfonic acid, lead(2+) salt	メタンスルホン酸鉛(II)	17570-76-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●		●					
Naphthalenesulfonic acid, diisononyl-, lead(2+) salt	ジイソニルナフタレンスルホン酸鉛(II)塩	63568-30-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Naphthalenesulfonic acid, dinonyl-, lead(2+) salt	ジニルナフタレンスルホン酸鉛塩	61867-68-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Naphthenic acids, lead (2+) salts	ナフテン酸鉛(II)塩	91078-81-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Naphthenic acids, lead manganese salts	ナフテン酸鉛マンガン塩	61788-52-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Naphthenic acids, lead salts, basic	塩基性ナフテン酸鉛塩	92045-67-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Neodecanoic acid, lead salt, basic	塩基性ネオデカン酸鉛塩	90459-25-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Neononanoic acid, lead salt, basic	塩基性ネオノナン酸鉛塩	90459-26-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Neoundecanoic acid, lead salt, basic	塩基性ネオウンデカン酸鉛塩	90459-28-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Nitric acid, lead(2+) salt, reaction products with sodium tin oxide	酸化チタンナトリウムによる反応生成物である硝酸鉛(II)塩	97953-08-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Nitrous acid, lead(2+) salt	亜硝酸鉛塩	13826-65-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Octadecanoic acid, lead salt, basic	塩基性オクタデカン酸鉛塩	90459-51-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Octadecanoic acid, lead(2+) salt, basic	塩基性オクタデカン酸鉛(Ⅱ)塩	90459-52-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Octadecanoic acid, lead(2+) salt, tribasic	三塩基性オクタデカン酸鉛(Ⅱ)	52080-60-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Octanoic acid, lead salt	オクタン酸鉛(混合)	15696-43-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Orthoboric acid, lead(2+) salt	オルトホウ酸鉛(Ⅱ)塩	35498-15-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Perchloric acid, reaction products with lead oxide (pbO) and triethanolamine	酸化鉛(PbO)とトリエタノールアミンによる反応生成物の過塩素酸	99749-31-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Petrolatum, petroleum, oxidized, lead salt	ガソリン中の酸化鉛化合物	67674-14-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phenol, 2-methyldinitro-, lead salt	2-メチルジニトロフェノール鉛塩	50319-14-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phenol, dodecyl-, lead(2+) salt	ドデシルフェノール鉛(Ⅱ)塩	68586-21-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phenol, tetrapropylene-, lead(2+) salt	テトラプロピレンフェノール鉛(Ⅱ)の塩	122332-23-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphonic acid, lead salt	亜リン酸鉛	16038-76-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphonic acid, lead salt, basic	塩基性リン酸鉛	53807-64-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphonic acid, lead(2+) salt	リン酸鉛(Ⅱ)塩	24824-71-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphonic acid, lead(2+) salt (1:1)	亜リン酸鉛	13453-65-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphonic acid, lead(2+) salt (2:1)	亜リン酸鉛(2:1)	15521-60-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphoric acid, lead(2+) salt (1:1)	リン酸水素鉛(2)	15845-52-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphoric acid, mixed butyl and hexyl diesters, lead(2+) salts	ブチルとヘキシルジエステル混合のリン酸鉛塩	93925-27-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphorodithioate O,O-bis(1,3-dimethylbutyl), lead salt	チオリン酸O,O'-ビス(1,3-ジメチルブチル)鉛塩	20383-42-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Phosphorodithioic acid, mixed O,O-bis(bu and pentyl) esters, lead(2+) salt	ホスホジチオ酸とO,O'(オルト、オルト)-ビス(ブチルとフェニール)エステル、炭酸鉛を混合した。	91783-10-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Plumbane, chlorotriethyl-	トリエチル鉛塩	1067-14-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Plumbane, diethyldimethyl-	ジエチルジメチル鉛	1762-27-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●					●		●							
Plumbane, ethyl methyl derivatives	エチルメチル鉛酸塩誘導体	68610-17-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Plumbane, ethyltrimethyl-	エチルトリメチル鉛	1762-26-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●					●		●							
Plumbane, tetrabutyl-	テトラブチル鉛酸塩	1920-90-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Plumbane, tetrakis(1-methylethyl)-	テトラキス(1-メチルエチル)鉛酸塩	14846-40-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Plumbane, tetrakis(1-methylpropyl)-	テトラキス(1-メチルプロピル)鉛酸塩	65151-08-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Plumbane, triethylmethyl-	トリエチルメチル鉛	1762-28-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●					●		●							
Plumbate (PbO22-), disodium	亜ナマリ酸ナトリウム	12034-30-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●														
Plumbate (PbO44-), calcium (1:2), (T-4)-	鉛酸カルシウム	12013-69-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Potassium pentadecaoxidiplumbatepentaniobate(1-)	十五オキソジ鉛塩五ニオブ酸(1-)カリウム	12372-45-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Residues, copper-iron-lead-nickel matte, sulfuric acid-insol.	銅、鉄、鉛マツ(かわ)の残渣の非水溶性亜硫酸化合物	102110-49-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Salicylate, lead (II)	サリチル酸鉛(II)	6107-93-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Silicic acid (H2SiO3), calcium salt (1:1), lead and manganese-doped	ケイ酸カルシウム塩 鉛とマンガンドープ塗料	100402-96-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Silicic acid (H2SiO3), lead(2+) salt (1:1)	ケイ酸鉛	10099-76-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Silicic acid (H4SiO4), lead salt	ケイ酸鉛	15906-71-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Silicic acid, calcium salt, lead and manganese-doped	ケイ酸カルシウム塩 鉛とマンガンドープ塗料	102110-36-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Silicic acid, lead nickel salt	ケイ酸鉛ニッケル塩	68130-19-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●					●		
Slimes and sludges, lead sinter dust scrubber	鉛ダストスラバー中の粘着液、スラッジ	70514-37-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Speiss, lead-zinc	鉛-亜鉛ひかわ	93821-72-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, lead salt	2',4',5',7'-テトラブロモフルオレセイン鉛	1326-05-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Stearic acid, lead (2+) salt	ステアリン酸鉛	1072-35-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●							
Sulfuric acid, barium lead salt	硫酸性バリウム鉛塩	42579-89-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Sulfuric acid, barium salt (1:1), lead-doped	鉛ドープ塗料中の硫酸バリウム塩(1:1)	99328-54-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Sulfuric acid, lead salt, tetrabasic	塩基性硫酸鉛	52732-72-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Sulfuric acid, lead(2+) salt, basic	塩基性亜硫酸鉛	90583-07-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Sulfurous acid, lead salt, basic	塩基性亜硫酸鉛	52231-92-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Sulfurous acid, lead salt, dibasic	塩基性亜硫酸鉛	62229-08-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Sulfurous acid, lead(2+) salt, basic	塩基性亜硫酸鉛	90583-37-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Sulfurous acid, lead(2++) salt (1:1)	亜硫酸鉛(II)	7446-10-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Telluric acid (H2TeO3), lead(2+) salt (1:1)	テルル酸(H2TeO3)鉛(II)塩(1:1)	15851-47-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Tetradecanoic acid, lead salt, basic	塩基性テトラデカン酸鉛塩	90583-85-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classificatio n	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~ 16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Tetraethyllead	テトラエチル鉛	78-00-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●		●					
Tetramethyl lead	テトラメチル鉛	75-74-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Tetraphenyllead	テトラフェニル鉛	595-89-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Tetrapropyl lead	テトラプロピル鉛	3440-75-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Thiosulphuric acid, lead salt	チオ硫酸鉛	26265-65-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead/Tin alloy	スズ-鉛合金	39412-44-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Trinitrochloroglucinol, lead salt	トリニトロフロログルシノール鉛	51325-28-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Lead, bis(carbonato(2-))dihydroxytri /Lead carbonate hydroxide	ビス(炭酸)ニ水酸化三鉛(II)	1319-46-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P	Mandatory	●	●							●		●					
Boric acid (HBO2), lead(2+) salt, monohydrate (8Cl, 9Cl)	ホウ酸鉛	10214-39-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●							●							
Fatty acids, C6-19-branched, lead salts, basic		68603-83-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●														
Pigment Lightfast Lead-Molybdate Orange OS (9Cl)		78690-68-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above	D/P		●	●														
Lead 198		16646-00-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead 199		27486-00-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead 200		16645-99-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead 201		17239-87-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead 203		14687-25-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead 209		14119-30-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead 211		15816-77-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead 212		15092-94-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead 214		15067-28-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead styphnate		63918-97-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Lead Hydroxide	水酸化鉛オキシド	1311-11-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Tetraalkyl lead	四アルキル鉛	—	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●					●		●							
	塩素酸鉛(II)	10294-47-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	亜塩素酸鉛(II)	13453-57-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	過塩素酸鉛(II)・三水和物	13453-62-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	塩素酸鉛(II)・一水和物	13510-96-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	臭化鉛(IV)	13701-91-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	4-メチル安息香酸鉛(IV)	15516-84-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	臭化鉛(I)	15576-47-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	フェノール鉛(II)塩	20534-94-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	メチル安息香酸鉛(II)	27496-91-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	テトラコサン酸鉛(II)	28267-01-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	ビス(ジイソプロピルジテオカルバト)鉛	30051-53-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	2-メチル安息香酸鉛(IV)	34295-32-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	2-メチル安息香酸鉛(II)	52337-73-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	[N,N-ビス(カルボキシメチル)グリシナト(3-)-N,O,O']鉛酸ナトリウム	53113-58-9	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	4-メチル安息香酸鉛(II)	58274-53-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	ウンデカン酸鉛(II)	63400-07-7	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	ノナン酸鉛(II)	63400-08-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	ビス[(E)-9-オクタデセン酸]鉛(II)	69637-83-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	ビス(ジプロピルカルバモジチオアト-S,S')鉛	70995-63-0	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	2-ヒドロキシエタンスルホン酸鉛(II)	72437-77-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	22-トリコセン酸鉛(II)	76835-98-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	六フッ化ケイ酸鉛(II)・四水和物	83689-82-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	2-プロピルペンタン酸鉛(II)	87835-32-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	2-ブチル安息香酸鉛(II)	91187-55-2	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	2-ヒドロキシ-1-プロパンスルホン酸鉛(II)	103427-19-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	シュウ酸鉛(II)・三水和物	128226-81-3	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	炭酸鉛	13427-42-4	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	シュウ酸鉛(1:?)	15843-48-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	フェノール鉛塩(1:?)	25987-03-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	ノナン酸鉛(1:?)	41234-07-5	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	2-メチル安息香酸鉛(1:?)	76925-97-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	ヒドロキシベンゼンホルン酸鉛(1:?)	82696-30-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	2-ヒドロキシ-1-プロパンスルホン酸鉛(1:?)	114801-64-8	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
	1-ヒドロキシ-2-プロパンスルホン酸鉛(1:?)	133988-90-6	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Same as above			●	●							●							
Mercury and its compounds, all members	水銀およびその化合物、すべて			Note 18) To be prohibited: Applications subject to the ELV and RoHS Directives Note 19) To be reduced: Applications not subject to the ELV and RoHS Directives	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P																	
(2',7'-Dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxymercury	(2',7'-ジブromo-3',6'-ジヒドロキシ-3-オキソスピロ[イソベンゾフラン-1(3H),9'-[9H]キサンテン]-4'-イル)ヒドロキシ水銀	55728-51-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(2-Carboxy-m-tolyl)hydroxymercury, monosodium salt	2-(ヒドロキシメルクリオ(II))-6-メチル安息香酸ナトリウム	52795-88-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(2-Carboxyphenyl)hydroxymercury	2-カルボキシフェニル(ヒドロキシ)水銀(II)	14066-61-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(Acetato-O)ethylmercury	酢酸エチル水銀(II)	109-62-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(Acetato-O)methylmercury	酢酸メチル水銀(II)	108-07-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(Bromodichloromethyl)phenylmercury	(ブロモジクロロメチル)フェニル水銀(II)	3294-58-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(Dihydroxyphenyl)phenylmercury	(ジヒドロキシフェニル)フェニル水銀	27360-58-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(Lactato-O1,O2)mercury	(乳酸-O1,O2)水銀	18918-06-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(Maleoyldioxy)bis[phenylmercury]	(マレオイルビスオキシ)ビス[フェニル水銀(II)]	2701-61-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							
(Metaborato-O)phenylmercury	メタボウ酸フェニル水銀(II)	31224-71-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●							●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
(Phenylmercurio)urea	(フェニルメルクリオ(II))尿素	2279-64-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[[2-Hydroxyethyl]amino]phenylmercury acetate	2-ヒドロキシエチルアミノフェニル水銀酢酸	61792-06-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[.mu.-[[Oxydiethylene but-2-enedioato](2-)]diphenylmercury	[.mu.-[[オキシジエチレンブチル-2-エンジオアト(2-)]ジフェニルニ水銀	94070-92-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[.mu.-[[4,4'-(Oxydiethylene) bis(dodeceny)succinato]](2-)]diphenylmercury	[.mu.-[[4,4'-(オキシジエチレン)ビス(ドデセニルスクシ酸)](2-)]ジフェニルニ水銀	93882-20-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[.mu.-[[Metasilicato(2)-O,O]]bis(2-methoxyethyl)dimercury	[.mu.-[[メタケイ酸(2-)-O,O]]ビス(2-メトキシエチル)ニ水銀	19367-79-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[.mu.-[[Orthoborato(2)-O,O]]diphenylmercury	.mu.-[[オルトホウ酸(2-)-O,O]]ジフェニルニ水銀	6273-99-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[2,2',2''-Nitrilotri(ethanol)-N,O,O',O'']phenylmercury lactate	[2,2',2''-ニトリロトリ(エタノール)-N,O,O',O'']フェニル水銀乳酸	23319-86-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[2-Ethylhexyl hydrogen maleato-O']phenylmercury	2-エチルヘキシル水素マレイン酸-O'-フェニル水銀	27605-30-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[Benzoato(2)-C2,O1]mercury	[安息香酸(2-)-C2,O1]水銀	5722-59-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
[Naphthoato(1)-O]phenylmercury	[ナフテン酸(1-)-O]フェニル水銀	31632-68-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
2-(Ethylmercuriothio)benzoic acid	エチル水銀チオベンゼン酸	148-61-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
2-Ethoxyethylmercury acetate	(2-エトキシエチル)水銀(II)アセテート	124-08-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
2-Ethoxyethylmercury chloride	2-エトキシエチル水銀(II)クロリド	124-01-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
2-Hydroxy-5-(1,1,3,3-tetramethylbutyl)phenylmercury acetate	2-ヒドロキシ-5-(1,1,3,3-テトラメチルブチル)フェニル水銀酢酸	584-18-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
2-Methoxyethylmercury chloride	塩化メトキシエチル水銀	123-88-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																

5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)				
6-Methyl-3-nitrobenzoxamercurate	ニトロメルソール	133-58-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																●		
Barium tetraiodomercurate	四ヨウ化水銀酸バリウム	10048-99-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bis(5-oxo-DL-prolinato-N1,O2)mercury	ビス(5-オキソ-DL-プロリン酸-N1,O2)水銀	94276-38-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bis(5-oxo-L-prolinato-N1,O2)mercury	ビス(5-オキソ-L-プロリン酸-N1,O2)水銀	94481-62-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bis(acetato-O)[μ-[1,3-dioxane-2,5-diylbis(methylene)-c:c',O,O']]dimercury	ビス(酢酸-O)[μ-[1,3-ジオキサン-2,5-ジイルビス(メチレン)-c:c',O,O']]二水銀	84029-43-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bis(lactato-O1,O2)mercury	乳酸-O1,O2)水銀	18917-83-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bis(trichloromethyl)mercury	ビストリクロメチル水銀	6795-81-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bis(+)-lactato]mercury	ビス[ (+)-乳酸]水銀	33724-17-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bis(trimethylsilyl)methyl]mercury	ビス(トリメチルジイルメチル)水銀	13294-23-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bromo(2-hydroxypropyl)mercury	ブロモ(2-ヒドロキシプロピル)水銀(Ⅱ)	18832-83-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bromoethylmercury	臭化エチル第二水銀	107-26-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bromomethylmercury	臭化メチル水銀(Ⅱ)	506-83-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Bromophenylmercury	ブロモ(フェニル)水銀(Ⅱ)	1192-89-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Chlormerodrin	クロルメロドリン	62-37-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	
Chloro(hydroxyphenyl)mercury	クロロヒドロキシフェニル水銀	1320-80-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																	●	





5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Dimethyl[μ-(sulphato(2-)-O:O)]dimercury	硫酸ビス(メチル水銀(Ⅱ))	3810-81-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Dimethylmercury	ジメチル水銀	593-74-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Di-o-tolylmercury	ジ(2-メチルフェニル)水銀(Ⅱ)	616-99-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Diphenyl[μ-(tetrapropeny)succinato(2-)-O:O']dimercury	[μ-(テトラプロベニル)コハク酸(2-)-O:O']ジフェニルニ水銀	27236-65-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Diphenylmercury	ジフェニル水銀(Ⅱ)	587-85-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Disodium tetra(cyano-C)mercurate(2-)	テトラシアノ水銀(2-)ニナトリウム	15682-88-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Disuccinimidomercury	スクシンイミド水銀	584-43-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Ethylidomercury	ヨウ化エチル第二水銀	2440-42-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Ethylmercuric chloride	塩化エチル水銀(Ⅱ)	107-27-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Ethylmercuric phosphate	ホスホノオキシ(エチル)水銀(Ⅱ)	2235-25-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Fluorescein mercuric acetate	フルオレセイン酢酸水銀(Ⅱ)	3570-80-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Hexanoic acid, 2-ethyl-, mercury(2+) salt	2-エチルヘキサノ酸水銀(Ⅱ)	13170-76-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Hydrargaphen	ヒドラルガフェン	14235-86-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Hydrogen [metasilicato(2-)-O][2-methoxyethyl]mercurate(1-)	[メタケイ酸(2-)-O]2-メトキシメチル水銀水素	64491-92-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Hydrogen μ-hydroxy[μ-(orthoborato(3-)-O:O')]diphenyldimercurate(1-)	μ-ヒドロキシ[μ-(オルトホウ酸(3-)-O:O')]ジフェニルニ水銀(1-)水素	94277-53-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Hydrogen [3-[(alpha.-carboxylato-o-anisoyl)amino]-2-hydroxypropyl]hydroxymercurate(1-)	[3-[(α-カルボキシエート-o-アニソイル)アミノ]-2-ヒドロキシプロピル]ヒドロキシ水銀(1-)水素	26552-50-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Iodomethylmercury	ヨード(メチル)水銀(Ⅱ)	143-36-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Lactatophenylmercury	フェニル水銀(Ⅱ)2-ヒドロキシプロピオナート	122-64-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Meralein sodium	メロジセイン	4386-35-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercaptomerin sodium	メルカプトメリンナトリウム	21259-76-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercuderamide	メルクデラミド	525-30-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercurate(1-), (4-carboxylatophenyl)chloro-, hydrogen	p-クロロ安息香酸第二水銀	59-85-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercurate(1-), (4-carboxylatophenyl)hydroxy-, sodium	4-(ヒドロキシ水銀)安息香酸ナトリウム塩	138-85-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercurate(1-), triiodo-, hydrogen, compound with 3-methyl-2(3H)-benzothiazolimine (1:1)	三ヨウ化水銀酸(1-)水素と3-メチル-2(3H)-ベンゾチアゾリミンの混合物(1:1)	72379-35-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercurate(2-), tetrachloro-, dipotassium, (T-4)-	2カリウム・テトラクロロメルクラート(Ⅱ)	20582-71-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercurate(2-), tetraiodo-, (T-4)-, dihydrogen, compound with 5-iodo-2-pyridinamine (1:2)	四ヨウ化水銀(2-) 二水素、5-ヨウ素-2-ピラジナミン混合物(1:2)	63325-16-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercurate(2-), tetraiodo-, dicopper(1+), (T-4)-	ヨウ化銅水銀(Ⅱ)	13876-85-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercuric acetate	酢酸水銀(Ⅱ)	1600-27-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercuric benzoate	安息香酸水銀	583-15-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercuric bromide	臭化水銀(Ⅱ)	7789-47-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Mercuric chloride	塩化第二水銀	7487-94-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●														
Mercuric cyanide	シアン化水銀(Ⅱ)	592-04-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercuric iodide	ヨウ化水銀(Ⅱ)	7774-29-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercuric nitrate	硝酸水銀(Ⅱ)	10045-94-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●														
Mercuric oxide	酸化水銀(Ⅱ)	21908-53-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●														
Mercuric oxycyanide	ニ(シアン化)酸化ニ水銀(Ⅱ)	1335-31-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercuric potassium cyanide	テトラシアノ水銀(Ⅱ)酸カリウム	591-89-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercuric subsulfate	亜硫酸水銀	1312-03-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercuric sulfate	硫酸水銀(Ⅱ)	7783-35-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●														
Mercuric thiocyanate	チオシアン酸水銀(Ⅱ)	592-85-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercurobutol	メルクロブトール	498-73-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercurous acetate	酢酸第一水銀	631-60-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercurous azide	アジド水銀	38232-63-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercurous chloride	塩化第一水銀(HgCl)	7546-30-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Mercurous iodide	ヨウ化水銀(Ⅰ)	7783-30-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
Mercurous nitrate	ビス(硝酸)二水銀(Ⅰ)	10415-75-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercurous oxide	酸化第一水銀(黒色)	15829-53-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercurous sulfate	硫酸二水銀(Ⅰ)	7783-36-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury	水銀	7439-97-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●													●			
Mercury, bromo[1-(methoxyphenylmethyl)-2-oxo-2-[(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)oxy]ethyl]-		5326-00-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury (I) nitrate	ビス(硝酸)二水銀(Ⅰ)二水和物	14836-60-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury (II) nitrate, monohydrate	硝酸水銀(Ⅱ)一水和物	7783-34-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury acetate	酢酸鉛	592-63-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury acetylide	アセチリド水銀	68833-55-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury ammonium chloride	アミド塩化水銀(Ⅱ)	10124-48-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury bis(4-chlorobenzoate)	ビス(4-クロロ安息香酸)水銀(Ⅱ)	15516-76-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury bis(trifluoroacetate)	ビス(トリフルオロ酢酸)水銀(Ⅱ)	13257-51-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury bromide (Hg2Br2)	二臭化二水銀(Ⅰ)	15385-58-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury bromide (HgBr)	臭化第一水銀	10031-18-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury chloride	塩化第一水銀(Hg2Cl2)	10112-91-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Mercury diiodate	ヨウ素酸水銀	7783-32-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury dipotassium tetrathiocyanate	四チオアン酸ニカリウム水銀	14099-12-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury disilver tetraiodide	ヨウ化水銀(Ⅱ)	7784-03-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury distearate, pure	ステアリン酸水銀	645-99-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury fluoride	フッ化水銀(Ⅰ)	27575-47-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury fluoride (HgF2)	フッ化水銀(Ⅱ)	7783-39-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury gluconate	グルコール酸水銀	63937-14-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury nitride	チッ化水銀	12136-15-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury oleate	オレイン酸第二水銀	1191-80-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury salicylate	サリチル酸水銀	5970-32-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury selenide (HgSe)	セレン化水銀(Ⅱ)	20601-83-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury silver iodide	ヨウ化水銀	12344-40-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury succinate	コハク酸水銀(Ⅱ)	589-65-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury sulfide (HgS)	硫化水銀(Ⅱ)	1344-48-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P	Mandatory	●	●															
Mercury telluride (HgTe)	テルル化水銀(Ⅱ)	12068-90-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Mercury thallium dinitrate	硝酸、水銀(Ⅰ)、タリウム(Ⅰ)	94022-47-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(1+) bromate	臭素酸第一水銀	13465-33-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(1+) ethyl sulphate	硫酸エチル=水銀(Ⅰ)	71720-55-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(1+) trifluoroacetate	トリフルオロ酢酸水銀(Ⅰ)	2923-15-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(1+), aminophenyl-, acetate	アミノフェニル水銀(Ⅱ)-酢酸	22450-90-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(2+) (9Z,12Z)-octadeca-9,12-dienoate	ビスリノール酸水銀(Ⅱ)	7756-49-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(2+) chloroacetate	ビス(クロロ酢酸)水銀(Ⅱ)	26719-07-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(2+), bis(2,4,6-tri-2-pyridinyl-1,3,5-triazine-N1,N2,N6)-, (OC-6-1'2)-	ビス(2,4,6-トリ-2-ピリジン-1,3,5-トリアジン-N1,N2,N6)水銀(Ⅱ)	53010-52-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(Ⅱ) oxalate	シュウ酸水銀(Ⅱ)	3444-13-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury(Ⅱ) potassium iodide	ヨウ化カリウム水銀(Ⅱ)	7783-33-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury, (2-ethylhexanoato-O)(1-methoxycyclohexyl)-	水銀(2-エチルヘキサノ酸)(0-メトキシシクロヘキシル)	103332-13-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury, (1-methoxycyclohexyl)(neodecanoato-O)-	(1-メトキシシクロヘキシル)(ネオデカノエート-O)-、水銀	103369-15-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury, (1-methoxyethyl)(9-octadecenoato-O)-	1-メトキシエチル(9-オクタデセノエート-O)-、水銀	104325-07-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury, (1-methoxycyclohexyl)(9-octadecenoato-O)-	水(1-メトキシシクロヘキシル)(9-オクタデセノエート-O)-、水銀	104325-08-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															
Mercury, (1-methoxyethyl)(neodecanoato-O)-	(1-メトキシエチル)(ネオデカノエート-O)-、水銀	104335-53-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●															

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
Mercury, (2-ethylhexanoato-O)(1-methoxyethyl)	(2-エチルヘキサノアト)(0-メトキシエチル)、水銀	104339-46-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (2',7'-dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen ]-4'-yl)hydroxy-, disodium salt	マーキュロクロム, (2',7'-ジブロモ-3',6'-ジソジオオキシ-3-オキソスピロ[イソベンゾフラン-1(3H),9'-[9H]キサンテン]-4'-イル)ヒドロキシ水銀	129-16-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (2-ethylhexanoato-O)phenyl-	-2-エチルヘキサノ酸フェニル水銀(Ⅱ)	13302-00-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (9-octadecenoato-O)phenyl-, (Z)-	オレイン酸フェニル水銀	104-60-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (acetato-O)(2-hydroxy-5-nitrophenyl)-	アセチルオキシ(2-ヒドロキシ-5-ニトロフェニル)水銀(Ⅱ)	63468-53-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (acetato-O)(4-aminophenyl)-	酢酸p-アミノフェニル水銀(Ⅱ)	6283-24-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (acetato-O)[3-(chloromethoxy)propyl-C,O]-	アセチルオキシ(3-(クロロメチキシル)プロピル)水銀(Ⅱ)	5954-14-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (acetato-O)[4-[[4-(dimethylamino)phenyl]azo]phenyl]-	N,N-ジメチル-4'-((アセトキシメルクリオ(Ⅱ))アゾベンゼン-4-アミン	19447-62-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (acetato-O)diamminephenyl-, (T-4)-	酢酸-O-フェニルジアミン水銀	68201-97-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, (neodecanoato-O)phenyl-	ネオデカン酸-O-フェニル水銀	26545-49-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, [mu.-(dodecylbutanedioato(2-)-O,O)]diphenylid-	2-ドデシルニコハク酸ビス(フェニル水銀(Ⅱ))	24806-32-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, [2,5-dichloro-3,6-dihydroxy-2,5-cyclohexadiene-1,4-dionato(2-)-O1,O6]-	クロラニル酸水銀塩	33770-60-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, bis(4-methylphenyl)-	ビス(4-メチルフェニル)水銀(Ⅱ)	537-64-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, bis(acetato-O)(benzenamine)-	ビス酢酸-O-アニリン水銀	63549-47-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																
Mercury, bis(phenyldiazene-carbohioc acid 2-phenylhydrazidato-N2,S), (T-4)-	ビス(フェニルジアゼンチオカルボン酸2-フェニルヒドラジダト-N2,S)水銀	14783-59-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●																









5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Phenyl(tribromomethyl)mercury	トリブロモメチルフェニル水銀(Ⅱ)	3294-60-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercuric acetate	アセト(フェニル)水銀(Ⅱ)	62-38-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercuric hydroxide	水酸化フェニル水銀	100-57-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercuric nitrate	硝酸フェニル第二水銀	55-68-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercury benzoate	(ベンゾイルオキシ)フェニル水銀(Ⅱ)	94-43-9	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercury chloride	塩化フェニル水銀	100-56-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercury dimethyldithiocarbamate	ジメチルジチオカルバミド酸(フェニル水銀(Ⅱ))	32407-99-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercury hydroxide-phenylmercury nitrate	塩基性硝酸フェニル第二水銀	8003-05-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercury salicylate	フェニル水銀(Ⅱ)2-ヒドロキシベンゾアート	28086-13-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phenylmercury stearate	((1-オキソオクタデシル)オキシ)フェニル水銀(Ⅱ)	104-59-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Phosphoric acid, mercury salt	リン酸水銀(Ⅱ)(H3PO4.xHg)	10451-12-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Potassium triiodomercurate(1-)	三ヨウ化水銀(1-カリウム)	22330-18-3	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Sodium 3-[[[3-carboxylatopropionamido]carbonyl]amino]-2-methoxypropyl]hydroxymercurate(1-)	[3-[[[3-カルボキシル酸プロピオン酸アミド]カルボキシル]アミノ]-2-メトキシプロピル]ヒドロキシ水銀(1-)ナトリウム	7620-30-6	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Sodium 4-chloromercuribenzoate	p-(クロロメルクリオ)安息香酸ナトリウム	3198-04-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														
Sodium o-(ethylmercurithio)benzoate	チメロサル	54-64-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100	D/P		●	●														





5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	テトラシアノ水銀酸ニタリウム	15634-23-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	四ヨウ化水銀酸銅(II)	27228-67-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	硫化二水銀(I)	51595-71-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	亜硫酸水銀(II)	94238-21-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	亜セレン酸水銀(II)	14459-36-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	硝酸水銀(I)・一水和物	7782-86-7	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	硫酸水銀	13766-44-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	臭素酸水銀(II)・二水和物	26522-91-8	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	水酸化フッ化水銀(II)	28953-04-0	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	ヨウ化水銀(1:?)	37320-91-5	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	[N-(2-メチルフェニル)ベンゼンスルホンアミダト-N]フェニル水銀	54129-03-2	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
Alkyl mercury compounds	7ルキル水銀化合物	—	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
Methyl mercury compounds	メチル水銀化合物	—	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														●
	クロロトキシプロピル酢酸水銀	1319-86-4	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														
	(ヒドロジェンホスファト)ビス(エチル水銀)	2440-45-1	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●														

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Aryl-mercury compounds not specified this list	ア릴水銀化合物のうち、本リスト上で特定されていない物質	—	Prohibited Reduced	Note 18 Note 19	Intentional addition Impurity: Mercury concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Total of packaging materials and ELV4 substances 100			●	●							●							
Methanaminium, N-[4-[[4-(dimethylamino)phenyl]phenylmethylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride		569-64-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Methanol	メタノール	67-56-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Mineral fibers (Natural or Synthetic) except, all members except: - Non-respirable fibers - Fibers with low biopersistence	鉱物繊維(天然および合成)、連続長繊維を除く			All applications and products	Relative to the weight of component parts and materials 1000	D																	
Ceramic Fibers		142844-00-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Calcium-Magnesium-Zirconium-Silicate Mixture		329211-92-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Aluminium Chloride, Basic reaction products with Silica		675106-31-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Monomethyldibromodiphenylmethane	モノメチルジブロモジフェニルメタン(DBBT)	99688-47-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory									●							
Monomethyldichlorodiphenylmethane	モノメチルジクロロジフェニルメタン	81161-70-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory									●							
Monomethyrtetrachlorodiphenylmethane	モノメチルテトラクロロジフェニルメタン	76253-80-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory									●							
Naphthalenedisulfonic acid, dinonyl-		60223-95-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1)		57855-77-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Naphthalenesulfonic acid, dinonyl-		25322-17-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
2-Naphthalenol, 1-[[4-methyl-2-nitrophenyl]azo]- (Pigment Red 3)	ビグメントレッド-3	2425-85-6	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
2-Naphthylamine and its salts, all members	2-ナフチルアミンおよびその塩、すべて			All applications and products	Relative to the weight of component parts and materials 100	P																	
2-Naphthylamine	2-ナフチルアミン	91-59-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	P	Mandatory						●			●						●	
2-Naphthylammoniumacetat		553-00-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 100	P																●	
N-1-naphthylaniline		90-30-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Nickel and its compounds, all members	ニッケル化合物、すべて			All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
(2-Ethylhexanoato-O)(isodecanoato-O)nickel	(2-エチルヘキサン酸-O)(イソデカン酸-O)ニッケル	84852-39-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(2-Ethylhexanoato-O)(isononanoato-O)nickel	(2-エチルヘキサン酸-O)(イソノナン酸-O)ニッケル	85508-45-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(2-Ethylhexanoato-O)(isooctanoato-O)nickel	(2-エチルヘキサン酸-O)(イソオクタン酸-O)ニッケル	84852-38-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(2-Ethylhexanoato-O)(neodecanoato-O)nickel	(2-エチルヘキサン酸-O)(ネオデカン酸-O)ニッケル	85135-77-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(Isodecanoato-O)(isononanoato-O)nickel	(イソデカン酸-O)(イソノナン酸-O)ニッケル	84852-36-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(Isodecanoato-O)(isooctanoato-O)nickel	(イソデカン酸-O)(イソオクタン酸-O)ニッケル	85166-19-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(Isodecanoato-O)(neodecanoato-O)nickel	(イソデカン酸-O)(ネオデカン酸-O)ニッケル	85508-42-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(Isononanoato-O)(isooctanoato-O)nickel	(イソノナン酸-O)(イソオクタン酸-O)ニッケル	85508-46-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(Isononanoato-O)(neodecanoato-O)nickel	(イソノナン酸-O)(ネオデカン酸-O)ニッケル	85551-28-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(Isooctanoato-O)(neodecanoato-O)nickel	(イソオクタン酸-O)(ネオデカン酸-O)ニッケル	84852-35-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
(Neononanoato-O)(neoundecanoato-O)nickel	(ネオノナン酸-O)(ネオウンデカン酸-O)ニッケル	93820-08-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
[μ-[1,1',1'',1''']-[Benzene-1,2,4,5-tetrayltetrakis(nitromethylidene)]naphth-2-olato][4-]]dinickel	[μ-[1,1',1'',1''']-[ベンゼン-1,2,4,5-テトライルテトラキス(ニトロメチリジン)]2-ナフトラト][4-]]ニッケル	22484-07-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
[μ-[Carbonato(2-)-O-O]]dihydroxydinickel	μ-(炭酸(2-)-O,O') 二水酸化ニッケル	65405-96-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
[[2,2'-(4,8-Dichlorobenzo[1,2-d:4,5-d']bisoxazole-2,6-diyl)]bis[4,6-dichlorophenolato]](2-)]nickel	[[2,2'-(4,8-ジクロロベンゾ[1,2-d:4,5-d']ビスオキサゾール-2,6-ジイル)]ビス[4,6-ジクロロフェノラト]](2-)]ニッケル	47726-62-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
[[2,2'-Thiobis[3-octylphenolato]](2-)-O,O',S]nickel	[[2,2'-チオビス[3-オクチルフェノラト]](2-)-O,O',S]ニッケル	33882-09-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
[[N,N',N'',N''']-[29H,31H-Phthalocyaninetetrayltrakis(sulphonylimino-3,1-phenylene)]tetrakis[3-oxobutyramidato]](2-)-N29,N30,N31,N32]nickel	[[N,N',N'',N''']-[29H,31H-フタロシアニントリイリトリス(スルホニルイミノ-3,1-フェニレン)]テトラキス[3-オキsobutyramidato]](2-)-N29,N30,N31,N32]ニッケル	97404-22-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
[[N,N',N'',N''']-[29H,31H-Phthalocyaninetriyltris(sulphonylimino-3,1-phenylene)]tris[3-oxobutyramidato]](2-)-N29,N30,N31,N32]nickel	[[N,N',N'',N''']-[29H,31H-フタロシアニントリイリトリス(スルホニルイミノ-3,1-フェニレン)]テトラキス[3-オキsobutyramidato]](2-)-N29,N30,N31,N32]ニッケル	97404-21-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ammonium nickel(2+) salt (2:2:1)	1,2,3-プロパントリカルボン酸2-ヒドロキシ-アンモニウムニッケル(Ⅱ)(2:2:1)	68025-13-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
1,2,3-Propanetriol, 1-(dihydrogen phosphate), nickel(2+) salt (1:1)	リン酸2,3-ジヒドロキシプロピルニッケル(Ⅱ)	68391-37-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
1,2,3-Propanetriol, mono(dihydrogen phosphate), nickel(2+) salt (1:1)	(ニリン酸水素)、1,2,3-プロパントリオール(Ⅱ)塩(1:1)	67952-69-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, nickel(2+) salt (1:1)	1,2-ベンゼンジカルボン酸3,4,5,6-テトラブロモニッケル(Ⅱ)塩(1:1)	18824-79-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
2,7-Naphthalenedisulfonic acid, nickel(2+) salt (1:1)	2,7-ナフタレンジスホン酸ニッケル(Ⅱ)	72319-19-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●					●		
2-Ethylhexanoic acid, nickel salt	2-エチルヘキサノ酸ニッケル	7580-31-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●					●		
Acetic acid, nickel(2+) salt, polymer with formaldehyde and 4-(1,1,3,3-tetramethylbutyl)phenol	ホルムアルデヒドと4-(1,1,3,3-テトラメチルブチル)フェニルによるポリマー中の酢酸ニッケル(2+)塩	71050-57-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Aluminum nickel oxide (Al2NiO4)	酸化アルミニウム-酸化ニッケル化合物 (Al2NiO4)	12004-35-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●					●		
Aluminum, compound with nickel (1:1)	アルミニウム,ニッケル(1:1)	12003-78-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Aluminum, triethyl-, reaction products with nickel(2+) bis(2-ethylhexanoate)	ビス(2-エチルヘキサノ酸)ニッケル(Ⅱ)による反応生成物であるトリエチルアルミニウム	79357-65-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Antimony oxide (Sb2O3), solid solution with nickel oxide (NiO) and titanium oxide (TiO2)	酸化ニッケル(NiO)と酸化チタン(TiO2)の固溶体中の酸化アンチモン(Sb2O3)	73892-02-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Antimony, compound with nickel (1:1)	アンチモン,ニッケル(1:1)	12035-52-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Antimony, compound with nickel (1:3)	アンチモン,ニッケル(1:3)	12503-49-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, nickel(2+) salt (2:1)	ビス(3,5-ビス(1,1-ジメチルエチル)-4-ヒドロキシベンゼンプロパン酸)ニッケル(Ⅱ)	55868-93-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, nickel(2+) salt (2:1)	ビス(3,5-ビス(1,1-ジメチルエチル)-4-ヒドロキシ安息香酸)ニッケル(Ⅱ)	52825-25-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●					●		
Bis(1,1,1,5,5,5-hexafluoropentane-2,4-dionato-O,O')nickel	ビス(1,1,1,5,5,5-ヘキサフルオロプロパン-2,4-ジオナト-O,O')ニッケル	14949-69-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(1,5-cyclooctadiene)nickel	ビス(シクロオクタジエン)ニッケル	1295-35-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(1H-1,2,4-triazole-3-sulphonato-N2,O3)nickel	ビス(1H-1,2,4-トリアゾール-3-スルホン酸-N2,O3)ニッケル	85586-46-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(1-nitroso-2-naphtholato)nickel	ビス(1-ニトロソ-2-ナフトール酸)ニッケル	12794-26-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')(2,2,4,4-tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]henicosan-21-one-O21)nickel	ビス(4-ベンゾイル-2,4-ジヒドロ-5-メチル-2-フェニル-3H-ピラゾール-3-オナト-O,O')(2,2,4,4-テトラメチル-7-オキサ-3,20-ジアザジスピロ[5.1.11.2]ヘンイコサン-21-オン-O21)ニッケル	79121-51-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')nickel	ビス(4-ベンゾイル-2,4-ジヒドロ-5-メチル-2-フェニル-3H-ピラゾール-3-オナト-O,O')ニッケル	69524-96-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(5-oxo-DL-prolinato-N1,O2)nickel	ビス(5-オキソ-DL-プロリン酸-N1,O2)ニッケル	85026-81-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(5-oxo-L-prolinato-N1,O2)nickel	ビス(5-オキソ-L-プロリン酸)ニッケル	70824-02-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(butanedione dioximato)nickel	ビス(ジメチルグリオキシマト)ニッケル(Ⅱ)	13478-93-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(D-gluconato-O1,O2)nickel	ビスグルコン酸ニッケル	71957-07-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●					●		
Bis(diethyldithiocarbamato-S,S')nickel	ビス(ジエチルカルバモジチオアト)ニッケル	52610-81-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis(quinolin-8-olato-N1,O8)nickel	ビスキノリン-8-オレイノ酸(-N1,O8)ニッケル	14100-15-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis[(2-hydroxyethyl)dithiocarbamato-S,S']nickel	ビス(2-ヒドロキシエチル)ジチオカルバミン酸-S,S'-ニッケル	52486-98-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis[2-hydroxy-4-(octyloxy)benzophenonato]nickel	ビス[2-ヒドロキシ-4-オクチルオキシベンゾフェノン酸]ニッケル	15843-91-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis[bis(2-hydroxyethyl)dithiocarbamato-S,S']nickel	ビス(ビス(2-ヒドロキシエチル)ジチオカルバミン酸-S,S'-)ニッケル	52486-99-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Bis[di(3,5,5-trimethylhexyl)dithiocarbamato-S,S']nickel	ビス[ジ(3,5,5-トリメチルヘキシル)ジチオカルバミン酸-S,S']ニッケル	84604-95-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							





5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Neodecanoic acid, nickel salt	ネオデカン酸ニッケル	51818-56-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●					●		
Nickel	ニッケル	7440-02-0	Reduced Observation	To be prohibited: Substances in contact with the human body continuously for a long period of time To be reduced: Substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 1000	D	Mandatory																
Nickel [R(R*,R*)]-tartrate	(2R,3R)-2,3-ジヒドロキシブタンジオアート,ニッケル,(1:x)	52022-10-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel acetate	酢酸ニッケル	14998-37-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel acetate tetrahydrate	酢酸ニッケル四水和物	6018-89-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel acrylate	プロペン酸ニッケル	51222-18-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel ammonium sulfate	ビス(硫酸)ニッケル(Ⅱ)アンモニウム	15699-18-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
C.I. Pigment Yellow 157 ( Nickel barium titanium priderite)		68610-24-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel bis(benzenesulphonate)	ビス(ベンゼンスルホン酸)ニッケル	39819-65-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel bis(dihydrogen phosphate)	ビス(リン酸二水素)ニッケル	18718-11-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel bis(phosphinate)	ジホスフィン酸ニッケル	14507-36-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel bis(piperidine-1-carbodithioate)	ビス(ピペリジン-1-チオ炭酸)ニッケル	41476-75-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel bisphosphinate	ホスフィン酸ニッケル	36026-88-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel boride	ホウ化ニッケル	12619-90-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel boride (Ni2B)	ホウ化ニッケル(Ni2B)	12007-01-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel boride (Ni3B)	ホウ化ニッケル(Ni3B)	12007-02-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel boride (NiB)	ホウ化ニッケル (NiB)	12007-00-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel bromide (NiBr2)	臭化ニッケル(Ⅱ)	13462-88-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel bromide (NiBr2), trihydrate	臭化ニッケル(Ⅱ)三水和物	7789-49-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel carbide	ニッケルカーバイド	12710-36-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel carbonate	炭酸ニッケル	3333-67-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel carbonyl	ニッケルカルボニル	12612-55-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel carbonyl	ニッケルカルボニル	13463-39-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel chloride		37211-05-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel cyanide	シアン化ニッケル(Ⅱ)	557-19-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel dibenzoate	安息香酸ニッケル(Ⅱ)	553-71-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel dibromate	臭素酸ニッケル	14550-87-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel dihydroxide hydrate		36897-37-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel dimethyldithiocarbamate	ニッケルビス(ジメチルジチオカーバメート)	15521-65-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel dipotassium bis(sulphate)	硫酸ニッケル,カリウム	13842-46-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel dithiocyanate	チオシアン酸ニッケル(Ⅱ)	13689-92-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel fluoride (NiF2)	フッ化ニッケル(Ⅱ)	10028-18-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel fluoride (NiF2), tetrahydrate	フッ化ニッケル四水和物	13940-83-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel hydrogen phosphate	リン酸ニッケル塩	14332-34-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel hydroxide	水酸化ニッケル(混合)	11113-74-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel hydroxide	水酸化ニッケル(混合)	12054-48-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Nickel hydroxide	水酸化ニッケル(混合)	12125-56-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●								
Nickel isooctanoate	イソオクタノ酸ニッケル	27637-46-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel methacrylate	メタクリル酸ニッケル	94275-78-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel nitrate	硝酸ニッケル	14216-75-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel nitrate (2+ salt)	硝酸ニッケル無水物	13138-45-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel nitrite	亜硝酸ニッケル	17861-62-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel oxide	酸化ニッケル	11099-02-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel oxide	酸化ニッケル	1313-99-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel oxide (Ni2O3)	酸化ニッケル(Ⅲ)	1314-06-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel oxide (NiO2)	二酸化ニッケル	12035-36-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel perchlorate	過塩素酸ニッケル(Ⅱ)	13637-71-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory									●							●	
Nickel phosphide (Ni2P)	ーリン化ニッケル	12035-64-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel potassium cyanide	テトラシアノニッケル(Ⅱ)酸カリウム	14220-17-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel selenate	セレン酸ニッケル(Ⅱ)	15060-62-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel selenide	セレン化ニッケル(Ⅱ)	1314-05-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel silicide (Ni2Si)	ニッケルケイ化物(Ni2Si)	12059-14-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel silicide (NiSi)	ニッケルケイ化物(NiSi)	12035-57-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel silicide (NiSi2)	ニッケルケイ化物(NiSi2)	12201-89-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel subsulfide	二硫化三ニッケル	12035-72-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel sulfate	硫酸ニッケル	7786-81-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel sulfide (Ni2S3)	ニッケル硫化物(Ni2S3)	12259-56-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel sulfide (NiS)	硫化ニッケル(Ⅱ)	16812-54-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel telluride	テルル化ニッケル	12142-88-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel tin trioxide	酸化スズニッケル	12035-38-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel titanium oxide	酸化チタンニッケル	12035-39-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel titanium oxide	酸化チタンニッケル	12653-76-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel titanium tungsten oxide (NiTi20W2O47)	酸化ニッケルチタンタングステン (NiTi20W2O47)	69011-05-8	Observation	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited	D										●							●	
Nickel uranium oxide (NiU3O10)	酸化ニッケルウラニウム(NiUO4)	15780-33-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited											●							●	
Nickel uranyl tetraacetate, of uranium depleted in uranium-235	ウラニウム235の劣化したウラニウムを含む四酢酸ニッケルウラニル	71767-12-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●							●	
Nickel vanadium oxide (NiV2O6)	酸化ニッケルバナジウム(NiV2O6)	52502-12-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel zirconium oxide (NiZrO3)	酸化ニッケルジルコニウム(NiZrO3)	70692-93-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel(1+), [1-(2-amino-4-imino-5(4H)-thiazolylidene)-N-[1-(2-amino-4-imino-5(4H)-thiazolylidene)-1H-isindol-3-yl]-1H-isindol-3-aminato]-, chloride	[1-(2-アミノ-4-イミノ-5(4H)-チアゾリデン)-N-[1-(2-アミノ-4-イミノ-5(4H)-チアゾリデン)-1H-イソインドール-3-イル]-1H-イソインドール-3-アミノ]-, クロライド	53199-85-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel(2+) acrylate	アクリル酸ニッケル(Ⅱ)	60700-37-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel(2+) methacrylate	メタクリル酸ニッケル(Ⅱ)	52496-91-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel(2+) neodecanoate	ネオデカン酸ニッケル(Ⅱ)	85508-44-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	
Nickel(2+) neononanoate	ネオノナン酸ニッケル(Ⅱ)	93920-10-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							●	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Nickel(2+) neoundecanoate	ネオウンデカン酸ニッケル(II)	93920-09-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●					●		
Nickel(2+) oleate	オレイン酸ニッケル	13001-15-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+) palmitate	パルミチン酸ニッケル(II)	13654-40-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+) selenite	セレン酸ニッケル(II)	10101-96-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+) silicate	ケイ酸ニッケル(II)	21784-78-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+) sulphite	硫化ニッケル(II)	7757-95-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+) trifluoroacetate	トリフルオロ酢酸ニッケル(II)	16083-14-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), bis(1,2-ethanediamine-N,N'), bis[bis(cyano-C)aurate(1-)]	ビス(1,2-エタンジアミン-N,N')ニッケル(2+)、ビス[ビス(シアノ-C)金酸塩(1-)]	68958-89-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), bis(1,2-ethanediamine-N,N'), salt with dimethylbenzenesulfonic acid (1:2)	ビス(1,2-エタンジアミン-N,N')ニッケル(2+)塩とジメチルベンゼンスルホン酸(1:2)	71215-98-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), bis(1,2-propanediamine)-, bis[dicyanoaurate(1-)]	ビス(1,2-プロパンジアミン)ニッケル(2+)、ビス[ジシクロ金酸塩(1-)]	18972-69-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), bis(ethylenediamine)-, sulfate (1:1)	ビスエチレンジアミンニッケル(II) 硫酸(1:1)	21264-77-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), hexakis(1H-imidazole-N3)-, (OC-6-11)-, 1,2-benzenedicarboxylate (1:1)	ニッケル(II)、ヘキサキス(1H-イミダゾール-N3)-(OC-6-11)-、1,2-ジカルボキシル酸ベンゼン(1:1)	108818-89-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), tris(1,2-ethanediamine-N,N'), (OC-6-11)-, salt with dimethylbenzenesulfonic acid (1:2)	トリス(1,2-エタンジアミン-N,N')ニッケル(2+)塩とジメチルベンゼンスルホン酸(1:2)	71215-97-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), tris(4,7-diphenyl-1,10-phenanthroline-N1,N10)-, (OC-6-11)-, bis[tetrafluoroborate(1-)]	トリス(4,7-ジフェニル-1,10-フェナンスロリン-N1,N10)ニッケル(II)-(OC-6-11)-、ビス[テトラフルオロホウ酸(1-)]	68309-97-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), tris(4,7-diphenyl-1,10-phenanthroline-N1,N10)-, (OC-6-11)-, dinitrate	トリス(4,7-ジフェニル-1,10-フェナントリン-N1,N10)ニッケル(II) 二硝酸(炭素数6-11)	38780-90-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), hexaamine-, (OC-6-11)-, carbonate (1:1)	ヘキサアンミンニッケル(2+) 炭酸(1:1)	67806-76-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(2+), hexaamine-, dihydroxide, (OC-6-11)-	ヘキサアンミンニッケル(II) 二水和物	51467-07-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) acetate	酢酸ニッケル(II)	373-02-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) chloride	塩化ニッケル	7718-54-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) chloride hexahydrate (1:2:6)	塩化ニッケル六水和物	7791-20-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) fluoborate	テトラフルオロホウ酸ニッケル(II)	14708-14-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) fumarate	ギ酸ニッケル(II)	6283-67-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) iodide	ヨウ化ニッケル(II)	13462-90-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) isodecanoate	イソデカン酸ニッケル(II)	85508-43-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) isooctanoate	イソオクタ酸ニッケル(II)	29317-63-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) nitrate, hexahydrate (1:2:6)	硝酸ニッケル(II)六水和物	13478-00-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel(II) sulfate hexahydrate (1:1:6)	硫酸ニッケル(II)六水和物	10101-97-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel, (2-ethylhexanoato-O)(trifluoroacetato-O)-	(2-エチルヘキサノアト-O)(トリフルオロ酢酸-O)ニッケル	70776-98-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel, (2-propano)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-O,O',S)-	[[2,2'-チオビス[4-(1,1,3,3-テトラメチルブチル)フェノール]](2-O,O',S) イソプロピルアルコールニッケル	67763-27-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel, (carbonato(2-))tetrahydroxytri-, tetrahydrate	塩基性炭酸ニッケル(II)・四水和物	39430-27-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel, [(2-amino-2-oxoethoxy)acetato(2-)]-	[(2-アミノ-2-オキソエトキシ)酢酸(2-)]ニッケル	68133-84-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel, [μ-(piperazine-N1:N4)]bis[3-[1-[(4,5,6,7-tetrachloro-1-oxo-1H-isindol-3-yl)hydrazono]ethyl]-2,4(1H,3H)-quinolinedionato(2-)]di-	[μ-(ピペラジン-N1:N4)]ビス[3-[1-[(4,5,6,7-テトラクロロ-1-オキソ-1H-インドール-3-イル)ヒドラゾノ]エチル]-2,4(1H,3H)-キノリンジオナト(2-)]ニッケル	71889-22-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel, [[1,1'-[1,2-phenylenebis(nitriomethylidene)]bis[2-naphthalenolato]](2-N,N',O,O')]di-	[[1,1'-[1,2-フェニレンビス(ニトロメチリデン)]bis[2-ナフチレン酸]](2-N,N',O,O')]ニッケル	20437-10-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel, [[2,2'-[methylenebis(thio)]bis[acetato]](2-)]-	[[2,2'-[メチレンビス(チオ)]bis[酢酸]](2-)]ニッケル	71215-73-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel, [[2,2'-sulfonylbis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-O1,O1',O2)-	[[2,2'-スルフォニルビス[4-(1,1,3,3-テトラメチルブチル)フェノラト]]ニッケル	16432-37-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	

5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Nickel, [[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-)-O,O',S,S']-	[[2,2'-チオビス[4-(1,1,3,3-テトラメチルブチル)フェノラト]]ニッケル	27574-34-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [1,3-dihydro-5,6-bis[[[2-hydroxy-1-naphthalenyl)methylene]amino]-2H-benzimidazol-2-onato(2-)-N5,N6,O5,O6], (SP-4-2)-	[1,3-ジヒドロ-5,6-ビス[[[2-ヒドロキシ-1-ナフタレニル]メチレン]アミノ]-2H-ベンズイミダゾール-2-オナト(2-)]ニッケル	42844-93-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32], (SP-4-1)-	ニッケルフタロシアニン	14055-02-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32], [[3-[[[5-chloro-2,6-difluoro-4-pyrimidinyl)amino]phenyl]amino]sulfonfyl sulfo derivatives, sodium salts	[29H,31H-フタロシアニン酸(2-)-N29,N30,N31,N32]-, [[3-[[[5-クロロ-2,6-ジフルオロ-4-ピリミジンル)アミノ]フェニル]アミノ]スルホホルスルホ誘導体、ニッケルナトリウム塩	90459-35-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32], chlorosulfonyl derivatives, reaction products with 2-[[4-aminophenyl)sulfonyl]ethyl hydrogen sulfate monosodium salt, potassium sodium salts, compounds with pyridine	ピリジン合成のための2-[[4-アミノフェニル]スルホニル]エチル硫酸水素ナトリウム塩、カリウムナトリウム塩による反応生成物である [29H,31H-フタロシアニン酸(2-)-N29,N30,N31,N32] ニッケルクロロスルホニル誘導体	93573-17-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [29H,31H-phthalocyanine-C,C,C,C-tetrasulfonyl tetrachloridato(2-)-N29,N30,N31,N32]-	[29H,31H-フタロシアニン-C,C,C,C-テトラスルホニルテトラクロリダト(Ⅱ)-N29,N30,N31,N32]ニッケル	28680-76-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [2-hydroxybenzoic acid [3-[[1-cyano-2-(methylamino)-2-oxoethylidene]-2,3-dihydro-1H-isindol-1-ylidene]hydrazidato(2-)]-	[2-ヒドロキシベンゼン酸[3-[[1-シアノ-2-(メチルアミノ)-2-オキソエチリデン]-2,3-ジヒドロ-1H-イソインドール-1-イリデン]ヒドラジダト(2-)]ニッケル	85958-80-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [carbonato(2-)]hexahydroxytetra-	ヘキサヒドロキシテトラカルボン酸(2-)ニッケル	12334-31-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [N-(4-chlorophenyl)-2-[3-[[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]methylene]hydrazino]-1H-isindol-1-ylidene]-2-cyanoacetamidato(2-)]-	[N-(4-クロロフェニル)-2-[3-[[[1-(4-クロロフェニル)-4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]メチレン]ヒドラジノ]-1H-イソインドール-1-イリジエン]-2-シアノアセトアミダト(2-)]ニッケル	71889-20-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [N-(carboxymethyl)glycinato(2-)-N,O,ON]-	[N-カルボキシルメチルグリシン酸(2-)-NOON]ニッケル	13869-33-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [N,N',N'',N'''-tetrakis[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-phthalocyanine-C,C,C,C-tetrasulfonamidato(2-)-N29,N30,N31,N32]-	[N,N',N'',N'''-テトラキス[4-(4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル)フェニル]-29H,31H-フタロシアニン-C,C,C,C-テトラスルホン酸アミダト(2-)-N29,N30,N31,N32]ニッケル	72986-45-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, [N,N',N''-tris[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-phthalocyanine-C,C,C-trisulfonamidato(2-)-N29,N30,N31,N32]-	[N,N',N''-トリス[4-(4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-1-イル)フェニル]-29H,31H-フタロシアニン-C,C,C-トリスルホン酸アミダト(2-)-N29,N30,N31,N32]ニッケル	72252-57-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, 2,2'-thiobis[4-nonylpheno] complexes	2,2'-チオビス[4-ノニルフェノール]ニッケル複合体	85480-75-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, acetate carbonate C8-10-branched fatty acids C9-11-neofatty acids complexes	酢酸カルボン酸、分岐型脂肪酸(炭素数C8-10)、分岐型新脂肪酸(炭素数C9-11)混合物中のニッケル	90459-30-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, acetylacetone 6-methyl-2,4-heptanedione complexes	アセチルアセトン、6-メチル-2,4-ヘプタジオン混合物中のニッケル	90459-34-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, aqua[2-[[4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]benzoato(2-)]-	[2-[[4,5-ジヒドロ-3-メチル-5-オキソ-1H-ピラゾール-4-イル]アゾ]安息香酸(2-)]水溶性ニッケル	106316-55-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis(2,4-pentanedionato-O,O'), (SP-4-1)-	ビスアセチルアセトナトニッケル(Ⅱ)	3264-82-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis(2-heptadecyl-1H-imidazole-N3)bis(octanoato-O)-	ビス(2-ヘプタデシル-1H-イミダゾール-N 3)ビス(オクタノ酸-O)ニッケル	68912-08-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis(3-amino-4,5,6,7-tetrachloro-1H-isindol-1-one oximato-N2,O1)-	ビス(3-アミノ-4,5,6,7-テトラクロロ-1H-イソインドール-1-オンオキシマト)ニッケル	70833-37-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis(dibutylcarbamodithioato-S,S'), (SP-4-1)-	ジブチルジチオカルバミン酸ニッケル	13927-77-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis(diethylcarbamodithioato-S,S'), (SP-4-1)-	ビス(ジエチルカルバミン酸ニッケル)	14267-17-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis(disononylcarbamodithioato-,)-	ビス(ジイソノニルカルバミン酸ニッケル)	85298-61-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis(dipentylcarbamodithioato-S,S'), (SP-4-1)-	ビス(ジペンチルカルボジチオ-S,S')ニッケル	36259-37-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis(phenyldiazene-carbothioic acid 2-phenylhydrazidato)-	ビス(フェニルジアゼンカルボチオイク酸、2-フェニルヒドラジド)ニッケル	36545-21-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis[[2-hydroxy-4-octylphenyl)phenylmethanonato-O,O']-	ビス[[2-ヒドロキシ-4-オクチルフェニル]フェニルメタン酸-O,O']ニッケル	68189-15-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis[[cyano-C]triphenylborato(1-)-N]bis(hexanedinitrile-N,N')-	ビス[[シアノ-C]トリフェニルホウ酸(1-)-N]ビス(ジニトリルヘキサニル)ニッケル	83864-02-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis[[didecyl (1,2-dicyano-1,2-ethenedyl)bis(carbamato)](2-)]-	ビス[[ジデシル(1,2-ジシアノ-1,2-エチニル)ビス(カルバメート)](2-)]ニッケル	77245-35-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis[1,2-bis(4-methoxyphenyl)-1,2-ethenedithiolato(2-)-S,S'], (SP-4-1)-	ビス[1,2-ビス(4-メトキシフェニル)-1,2-エチンジチオラト(2-)-S,S']ニッケル	38951-97-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis[1,2-diphenyl-1,2-ethenedithiolato(2-)-S,S'], (SP-4-1)-	ビス[1,2-ジフェニル-1,2-エタンジチオラト(2-)-S,S']ニッケル	28984-20-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis[1,4-(diethylamino)phenyl]-2-phenyl-1,2-ethenedithiolato(2-)-S,S']-	ビス[1-[[4-(ジエチルアミノ)フェニル]-2-フェニル-1,2-エタンジチオラト(2-)-S,S']ニッケル	51449-18-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nickel, bis[1,4-(dimethylamino)phenyl]-2-phenyl-1,2-ethenedithiolato(2-)-S,S']-	ビス[1-[[4-(ジメチルアミノ)フェニル]-2-フェニル-1,2-エタンジチオラト(2-)-S,S']ニッケル	38465-55-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Nickel, bis[2,3-bis(hydroxyimino)-N-(2-methoxyphenyl)butanamidato]-	ビス[2,3-ビス(ヒドロキシイミノ)-N-(2-メトキシフェニル)ブタンアミド]ニッケル	42739-61-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, bis[2,3-bis(hydroxyimino)-N-phenylbutanamidato-N2,N3]-	ビス[2,3-ビスヒドロキシイミノ)-N-フェニルアミノブタン-N2,N3]ニッケル	29204-84-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, bis[2,4-dihydro-5-methyl-4-(1-oxodecyl)-2-phenyl-3H-pyrazol-3-onato-O,O']-	ビス[2,4-ジヒドロ-5-メチル-4-(1-オキソデシル)-2-フェニル-3H-ピラゾール-3-オナト-O,O']ニッケル	56557-00-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, bis[2-butene-2,3-dithiolato(2-)-S,S']-(SP-4-1)-	ビス[2-ブテン-2,3-ジチオラト(2-)-S,S']ニッケル	38951-94-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, bis[3-[(4-chlorophenyl)azo]-2,4(1H,3H)-quinolinedionato]-	ビス[3-[(4-クロロフェニル)アゾ]-2,4(1H,3H)-キノリンジオナト]ニッケル	51931-46-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, bis[bis(2-methylpropyl)carbamodithioato-S,S']-(SP-4-1)-	ビス[ビス(2-メチルプロピル)カルバモジチオアト]ニッケル	15317-78-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, bis[N-hydroxy-3-(hydroxyimino)-N-(2-methoxyphenyl)butanimidamido-N,N3]-	ビス[N-ヒドロキシ-3-(ヒドロキシイミノ)-N-(2-メトキシフェニル)ブタンイミドアミダト-N,N3]ニッケル	71605-83-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, borate C8-10-branched carboxylate complexes	ホウ酸、分岐型カルボン酸(炭素数C8-10)混合物中のニッケル	90459-31-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, borate neodecanoate complexes	ホウ酸、ネオデカン酸混合物中のニッケル	92502-55-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, C4-10 fatty acids naphthenate complexes	脂肪酸(炭素数C4-10)、ナフテン酸混合物中のニッケル	93573-15-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, C4-10 fatty acids octanoate complexes	脂肪酸(炭素数C4-10)、オクタン酸混合物中のニッケル	93573-16-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, C5-23-branched carboxylate C4-10 fatty acids complexes	分岐型カルボン酸(炭素数C5-23)、脂肪酸(炭素数C4-10)混合物中のニッケル	93762-59-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, C5-23-branched carboxylate C4-10 fatty acids naphthenate complexes	分岐型カルボン酸(炭素数C5-23)、脂肪酸(炭素数C4-10)、ナフテン酸混合物中のニッケル	93573-14-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, C5-23-branched carboxylate naphthenate complexes	分岐型カルボン酸(炭素数C5-23)、ナフテン酸混合物中のニッケル	92200-98-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, C5-25-branched carboxylate naphthenate octanoate complexes	分岐型カルボン酸(炭素数C5-25)、ナフテン酸、オクタン酸混合物中のニッケル	92200-99-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, C5-C23-branched carboxylate octanoate complexes	分岐型カルボン酸(炭素数C5-23)、オクタン酸混合物中のニッケル	90459-32-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, compound with niobium (1:1)	ニッケル-ニオブ化合物(1:1)	12034-55-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, compound with tin (3:1)	ニッケル-スズ化合物(3:1)	12059-23-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, compound with zirconium (1:2)	ニッケル-ジルコニウム化合物(1:2)	12142-92-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, isodecanoate naphthenate complexes	イソデカン酸ナフテン酸の混合物中のニッケル	85585-97-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, isononanoate naphthenate complexes	イソノナン酸ナフテン酸の混合物中のニッケル	85585-98-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, iso-octanoate naphthenate complexes	イソオクタン酸、ナフテン酸混合物中のニッケル	90459-33-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, naphthenate neodecanoate complexes	ナフテン酸ネオデカン酸の混合物中のニッケル	85585-99-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, tetrakis(triphenyl phosphite-P)-, (T-4)-	テトラキスリン酸トリフェニルニッケル	14221-00-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickel, [6,8,16,18-tetrachloro-1,11-bis(2-furanylmethyl)-1,10,11,20-tetrahydroindeno[3,4-f:3',4'-m][1,2,5,8,9,12]hexaazacyclotetradecinato(2-)-N5,N10,N15,N20]-	[6,8,16,18-テトラクロロ-1,11-ビス(2-フランメチル)-1,10,11,20-テトラヒドロインデン[3,4-f:3',4'-m][1,2,5,8,9,12]ヘキサアザシクロテトラデカチン酸(2-)-N5,N10,N15,N20]ニッケル	79745-01-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickelate(1-), [[N,N'-1,2-ethanedilybis[N-(carboxymethyl)glycinato]](4-)-N,N',O',ON,ON]-, potassium, (OC-6-21)-	[[N,N'-1,2-エタンジイルビス[N-(カルボキシメチル)グリシン酸]](4-)-N,N',O',ON,ON]ニッケル酸(1-)カリウム	67906-12-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickelate(1-), [3,4-bis[[[2-hydroxy-1-naphthalenyl]methylene]amino]benzoato(3-)-N3,N4,O3,O4]-, hydrogen	[3,4-ビス[[[2-ヒドロキシ-1-ナフチレン]メチレン]アミノ]安息香酸(3-)-N3,N4,O3,O4]ニッケル酸(1-)水素	61300-98-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickelate(1-), [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O']-, hydrogen, (T-4)-	[N,N-ビス(カルボキシメチル)グリシン酸(3-)-N,O,O',O']ニッケル酸(1-)水素	34831-03-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickelate(1-), trichloro-, ammonium	トリクロロニッケル(1-)アンモニウム	24640-21-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickelate(2-), [[N,N'-1,2-ethanedilybis[N-(carboxymethyl)glycinato]](4-)-N,N',O',ON,ON]-, dihydrogen, (OC-6-21)-	[[エチレンジニトリロ]テトラアセト]ニッケル酸(2-)水素	25481-21-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickelate(3-), [22-[[[3-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]phenyl]amino]sulfonyl]-29H,31H-phthalocyanine-1,8,15-trisulfonato(5-)-N29,N30,N31,N32]-, trisodium, (SP-4-2)-	[22-[[[3-[(5-クロロ-2,6-ジフルオロ-4-ピリミジンル)アミノ]フェニル]アミノ]スルホニル]-29H,31H-フタロシアニン-1,8,15-トリスルホン酸(5-)-N29,N30,N31,N32]ニッケル酸(3-)三ナトリウム	71243-96-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							
Nickelate(3-), [5-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-3-[[2-hydroxy-3-nitro-5-sulfophenyl]azo]-2,7-naphthalenedisulfonato(5-)]-, trisodium	[5-[(4,5-ジヒドロ-3-メチル-5-オキソ-1-フェニル-1H-ピラゾール-4-イル)アゾ]-4-ヒドロキシ-3-[[2-ヒドロキシ-3-ニトロ-5-スルホフェニル]アゾ]-2,7-ナフタレンジスルホン酸(5-)]ニッケル酸(3-)三ナトリウム	79817-91-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●							





5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Phosphoric acid, nickel(2+) salt (2:3)	リン酸ニッケル	10381-36-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●					●		
Potassium [N,N-bis(carboxymethyl)glycinate(3-)-N,O,O',O'']nickelate(1-)	[N,N-ビス(カルボキシメチル)グリシン酸(3-)-N,O,O',O'']ニッケル酸(1-)カリウム	63640-18-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Silicic acid (H2SiO3), nickel(2+) salt (4:3)	ケイ酸(H2SiO3)ニッケル(Ⅱ)塩(4:3)	31748-25-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Sulfamic acid, nickel(2+) salt (2:1)	スルファミン酸ニッケル	13770-89-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Sulfuric acid, ammonium nickel(2+) salt	ビス(硫酸)ニッケル(Ⅱ)アンモニウム六水和物	7785-20-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate	硫化カルシウムフェノレートと反応した硫酸ニッケル塩	72162-32-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Sulfuric acid, nickel(2+) salt (1:1), heptahydrate	硫酸ニッケル七水和物	10101-98-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Sulfuric acid, nickel(2+) salt (1:1), reaction products with nickel and nickel oxide (NiO)	ニッケルや酸化ニッケルと反応した硫酸ニッケル(Ⅱ)塩(1:1)	68585-48-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Telluric acid (H2TeO3), nickel(2+) salt (1:1)	テルル酸(H2TeO3)ニッケル(Ⅱ)塩(1:1)	15851-52-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Telluric acid (H2TeO4), nickel(2+) salt (1:1)	テルル酸(H2TeO4)ニッケル(Ⅱ)塩(1:1)	15852-21-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Tetrahydrogen [[[3-amino-4-sulphophenyl]amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-)-N29,N30,N31,N32]nickelate(4-)	[[[[3-アミノ-4-スルホフェニル]アミノ]スルホニル]-29H,31H-フタロシアニンtrisルホン酸(6-)-N29,N30,N31,N32]ニッケル酸(4-)四ナトリウム	79102-62-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Tetrasodium [[[3-amino-4-sulphophenyl]amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-)-N29,N30,N31,N32]nickelate(4-)	[[[[3-アミノ-4-スルホフェニル]アミノ]スルホニル]-29H,31H-フタロシアニンtrisルホン酸(6-)-N29,N30,N31,N32]ニッケル酸(4-)四ナトリウム	93939-76-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Tetrasodium [bis[[4-[[2-(sulphoxyethyl)sulphonyl]phenyl]amino]sulphonyl]-29H,31H-phthalocyaninedisulphonato(6-)-N29,N30,N31,N32]nickelate(4-)	[ビス[[4-[[2-(スルホキシエチル)スルホニル]フェニル]アミノ]スルホニル]-29H,31H-フタロシアニンdisルホン酸(6-)-N29,N30,N31,N32]ニッケル酸(4-)四ナトリウム	97280-68-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Titanate(2-), hexafluoro-, nickel(2+), (1:1), (OC-6-11)-	ヘキサフルオロチタン(2-)酸ニッケル(Ⅱ)(1:1)(炭素数6-11)	34109-80-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Aluminiummagnesiumnickelsiliziumoxide		198831-12-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Antimony nickel titanium oxide yellow	C.I. ピグメントイエロ53	8007-18-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Iron nickel zinc oxide		12645-50-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
methyl 3-chlorobenzothiophene-2-carboxylate		14406-71-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
5,5-Azobis(2,4,6-pyrimidinetriol), nickel complex		68511-62-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Chrome iron nickel black spinel		71631-15-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D		●	●							●						●	
Nickel niobium titanium yellow rutile		68611-43-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel phosphate		14396-43-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Nickel sulfide	硫化ニッケル	11113-75-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Phosphoric acid,compounds,nickel(2+) zinc salt (2:1:2)		90053-13-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D										●						●	
Phosphoric acid,compounds,nickel(2+) zinc salt (2:1:2) tetrahydrate		501953-51-1	Observation	All applications and products	Relative to the weight of component parts and materials 100	D										●						●	
2,3'-Bis[[[2-hydroxyphenyl)methylene]amino]but-2-enedinitrilo(2-)-N2,N3,O2,O3]nickel;C.I. Solvent Brown 53		64696-98-6	Observation	All applications and products	Relative to the weight of component parts and materials 100											●						●	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, nickel(2+) salt (2:3)		6018-92-4	Observation	All applications and products	Relative to the weight of component parts and materials 100											●						●	
Di-mu.-carbonylbis(eta-5-2,4-cyclopentadien-1-yl)dinickel		12170-92-2	Observation	All applications and products	Relative to the weight of component parts and materials 100											●						●	
Nickel, dichlorobis(triphenylphosphine)-		14264-16-5	Observation	All applications and products	Relative to the weight of component parts and materials 100											●						●	
Nickel, tetrakis[tris(methylphenyl)phosphite-P]-		35884-66-3	Observation	All applications and products	Relative to the weight of component parts and materials 100											●						●	
Nickelate(2-), tetrakis(cyano-C)-,disodium, (SP-4-1)-		14038-85-8	Observation	All applications and products	Relative to the weight of component parts and materials 100											●						●	
Tetrakis(trifluorophosphine)nickel		13859-65-9	Observation	All applications and products	Relative to the weight of component parts and materials 100											●						●	
Zirconate(2-), hexafluoro-,nickel(2+) (1:1), (OC-6-11)-		30868-55-4	Observation	All applications and products	Relative to the weight of component parts and materials 100											●						●	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Zirconium alloy, base, Zr 40-82, Ni 18-60		42612-06-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●							
	ニッケル-アルミニウム合金のニッケル母材	12635-29-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●							
	ヘキサアンミンニッケル(II) 二ギ酸塩	68758-60-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●							
Nitrites, all members	亜硝酸塩, すべて			All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
Ammonium nitrite	亜硝酸アンモニウム	13446-48-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Amyl nitrite	亜硝酸イソアミル	110-46-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Barium nitrite hydrate	亜硝酸バリウム水和物	115216-77-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Butyl nitrite	亜硝酸n-ブチル	544-16-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Calcium nitrite	亜硝酸カルシウム	13780-06-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Calcium nitrite hydrated	亜硝酸カルシウム水和物	10031-34-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Ethyl nitrite	亜硝酸エチル	109-95-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Isobutyl nitrite	亜硝酸イソブチル	542-56-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																●	
Magnesium nitrite	亜硝酸マグネシウム	15070-34-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Potassium nitrite	亜硝酸カリウム	7758-09-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Silver nitrite	亜硝酸銀(Ⅰ)	7783-99-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Sodium nitrite	亜硝酸ソーダ	7632-00-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
tert-Butyl nitrite	亜硝酸tert-ブチル	540-80-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Dicyclohexylammonium nitrite	ジシクロヘキシルアミン亜硝酸塩	3129-91-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Diethyldihexadecylammonium nitrite (6Cl, 7Cl)		105841-28-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Diisopropylammonium nitrite		34915-40-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Morpholin, Nitrite (9Cl)		62076-93-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Pentyl nitrite	亜硝酸アミル	463-04-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Butan-2-yl nitrite	亜硝酸sec-ブチル	924-43-6	Observation	All applications and products	Relative to the weight of component parts and materials 100	D																	
4-Nitrobiphenyl and its salts, all members	4-ニトロビフェニルおよびその塩, すべて			All applications and products	Relative to the weight of component parts and materials 100	P																	
4-Nitrobiphenyl (4-Nitrodiphenyl)	4-ニトロビフェニル	92-93-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P							●			●							
Nitrocellulose	ニトロセルロース	9004-70-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Nitrosamines, selected	N-ニトロソアミン, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D/P																	
N-Nitroso diethanol amine	N-ニトロソジエタノールアミン	1116-54-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																●	
N-Nitroso diethyl amine (Ethanamine, N-ethyl-N-nitroso-)	N-ニトロソジエチルアミン	55-18-5	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																	
Dimethylnitrosoamine; N-nitrosodimethylamine Methanamine, N-methyl-N-nitroso-	N-ニトロソジメチルアミン	62-75-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																●	
N-Nitroso ethyl phenyl amine	N-ニトロソエチルフェニルアミン	612-64-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Nitroso methyl ethyl amine	N-ニトロソメチルエチルアミン	10595-95-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Nitroso methyl phenyl amine	N-ニトロソメチルフェニルアミン	614-00-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Nitroso morpholine Morpholine, 4-nitroso-	N-ニトロソモルホリン	59-89-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Nitroso pyrrolidine	N-ニトロソピロリジン	930-55-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Nitrosodi-i-propyl amine	N-ニトロソジイソプロピルアミン	601-77-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
N-Nitrosodi-n-butylamine (1-Butanamine, N-butyl-N-nitroso-)	N-ニトロソジn-ブチルアミン	924-16-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
N-Nitrosodi-n-propyl amine	ジブロピルニトロソアミン	621-64-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																●		
N-Nitrosopiperidine	1-ニトロソピペリジン	100-75-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nonylphenol, selected	ノニルフェノール, 抜粋	25154-52-3	Reduced	All applications and products	Relative to the weight of component parts and materials 1000	D										●								
4-Nonylphenol	4-ノニルフェノール	104-40-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
p-Isononylphenol		26543-97-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
p-(1-Methyloctyl)phenol		17404-66-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
p-(1,1-Dimethylheptyl)phenol		30784-30-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
4-(1-Ethyl-1-methylhexyl)phenol		52427-13-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
4-(1-Ethyl-1,3-dimethylpentyl)phenol		186825-36-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
4-(1-Ethyl-1,4-dimethylpentyl)phenol		142731-63-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Branched 4-nonylphenol	分岐 4-ノニルフェノール	84852-15-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nonylphenol ethoxylates, all members	ノニルフェノール エトキシレート, すべて			All applications and products	Relative to the weight of component parts and materials 1000	D																		
2-(2-(4-Nonylphenoxy)ethoxy)ethanol		20427-84-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory																	
20-(4-Nonylphenoxy)-3,6,9,12,15,18-hexaoxacosan-1-ol		27942-27-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory																	
4-t-Nonylphenol-diethoxylate		156609-10-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory																	
14-(Nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol	ポリオキシエチレン(5)ノニルフェノール	26264-02-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
3,6,9,12,15,18,21,24,27-Nonaoxononacosan-1-ol, 29-(nonylphenoxy)-	ポリオキシエチレン(10)ノニルフェノール	27177-08-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol, 26-(nonylphenoxy)-	26-ノニルフェノキシ-3,6,9,12,15,18,21, 24-オクタヘキサコサン-1-オール	26571-11-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
3,6,9,12,15,18,21-Heptaoxatricosan-1-ol, 23-(nonylphenoxy)-	ポリオキシエチレン(7.5)ノニルフェノール	27177-05-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Decaethylene glycol, isononylphenyl ether	デカエチレングリコールイソノニルフェニルエーテル	65455-72-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Ethanol, 2-[2-(nonylphenoxy)ethoxy]-	ジエチレングリコールノニルフェニルエーテル	27176-93-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Ethanol, 2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]-	2-(2-(2-(2-(4-ノニルフェノキシ)エトキシ)エトキシ)エトキシ)エタノール	7311-27-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory																	
Ethylene oxide-Nonylphenol polymer	ポリオキシエチレンノニルフェニルエーテル	9016-45-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nonylphenol polyethylene glycol ether	ノニルフェノールポリエチレングリコールエーテル	20636-48-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nonylphenol polyethylene glycol ether	ノニルフェノールポリエチレングリコールエーテル	27177-01-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy		27942-26-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-(1-oxo-2-propenyl)-omega-(nonylphenoxy)-		50974-47-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, phosphate		51811-79-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Nonylphenylpolyoxyethylene sulfosuccinate		54612-36-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched, phosphates		68412-53-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-(nonylphenoxy)-, branched, ammonium salt		68649-55-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-(sulfoxy)-, sodium salt		9014-90-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-(nonylphenoxy)-, ammonium salt		9051-57-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-	p-ノニルフェノールポリエチレングリコールエーテル	26027-38-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory																	
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched	α-ノニルフェニル-ω-ヒドロキシポリオキシ-1,2-エタジニル(分岐型)	68412-54-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	(オキシ-1,2-エタジニル)-α-(4-ノニルフェニル)-ω-ヒドロキシ分岐型ポリ重合体	127087-87-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory																	
Poly(oxy-1,2-ethanediyl), alpha-(2-nonylphenyl)-omega-hydroxy-	ポリ(オキシエチレン) = o-ノニルフェニル = エーテル	51938-25-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Poly(oxy-1,2-ethanediyl), alpha-(isononylphenyl)-omega-hydroxy-	ポリ(オキシ-1,2-エタンジイル),α-(イソノニルフェニル)-ω-オメガ-ヒドロキシ-	37205-87-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory									●								
Ethanol, 2-(4-nonylphenoxy)-		104-35-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory																	
p-Nonylphenol hexaethoxylate		34166-38-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory																	
Octadecanamine		124-30-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Octamethyltrisiloxane		107-51-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
7-Oxa-3,20-diazadispiro[5.1,11.2]-heneicosan-21-one, 2,2,4,4-tetramethyl-	2,2,4,4-テトラメチル-7-オキシ-3,2,0-ジアザジスピロ[5.1,11.12]ヘキソサン-21-オン	64338-16-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
	ノニルフェノールエトキシラート	—	Prohibited Reduced	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000											●								
Ozone depleting halogenated Hydrocarbons and Carbons, all members	オゾン層破壊のハロゲン炭化水素とカーボン、すべて			All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,1,1,2-Tetrachlor-2,2-difluoroethane	1,1-ジフルオロクロロエタン	76-11-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,1,1,3,3-Hexachlor-2,2-difluoropropane	ヘキサクロロジフルオロプロパン(CFC212)	3182-26-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,1,1,3,3-Pentachlor-2,2,3-trifluoropropane	ペンタクロロトリフルオロプロパン	2354-06-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,1,1,3-Tetrachlorotetrafluoropropane	1,1,1,3-テトラクロロテトラフルオロプロパン	2268-46-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,1,1-Tribromo-2,2,2-trifluoroethane	1,1,1-トリブロモ-2,2,2-トリフルオロエタン	354-48-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,1,1-Trichloropentafluoropropane	1,1,1-トリクロロペンタフルオロプロパン	4259-43-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,1,2-trichloro-1,2,2-trifluoroethane	1,1,2-トリクロロ-1,2,2-トリフルオロエタン	76-13-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,1-Dibromo-1,2,2,2-tetrafluoroethane	1,1-ジブロモ-1,2,2,2-テトラフルオロエタン	27336-23-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,1-Dibromo-2,2-difluoroethylene	1,1-ジブロモ-2,2-ジフルオロエチレン	430-85-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,1-Dichloro-1,2,2,2-tetrafluoroethane	1,1-ジクロロ-1,2,2,2-テトラフルオロエタン	374-07-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,2,2-Trichloropentafluoropropane	1,2,2-トリクロロペンタフルオロプロパン	1599-41-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,2,3-Trichloropentafluoropropane		76-17-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,2-Dibromo-1,1,2-trichloroethane	1,2-ジブロモ-1,1,2-トリクロロエタン	13749-38-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,2-Dibromo-1-chloro-1,2,2-trifluoroethane	1,2-ジブロモ-1-クロロ-1,2,2-トリフルオロエタン	354-51-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,2-Dibromotetrachloroethane	1,2-ジブロモテトラクロロエタン	630-25-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane	1,2-ジクロロ-1,1,2,3,3,3-ヘキサフルオロプロパン	661-97-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1,2-Difluorotetrachloroethane	1,1,2,2-テトラクロロ-1,2-ジフルオロエタン	76-12-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
1-Bromo-1-chloro-2,2-difluoroethylene	1-ブロモ-1-クロロ-2,2-ジフルオロエチレン	758-24-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
2-Bromo-1,1-dichloroethylene	2-ブロモ-1,1-ジクロロエチレン	5870-61-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Bromochlorodifluoromethane	ブロモクロロジフルオロメタン	353-59-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Bromodichlorofluoromethane	ブロモジクロロフルオロメタン	353-58-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Bromofluoromethane	ブロモフルオロメタン	373-52-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Bromopentafluoroethane	ブロモペンタフルオロエタン	354-55-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Bromotrifluoroethylene	ブロモトリフルオロエチレン	598-73-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Bromotrifluoromethane	ブロモトリフルオロメタン	75-63-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Carbon tetrabromide	四臭化炭素	558-13-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	P																		
Tetrachloromethane or Carbon tetrachloride	四塩化炭素	56-23-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory								●									
Chlorobromomethane	ブロモクロロメタン	74-97-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Chlorobromotrifluoroethane	クロロブロモトリフルオロエタン	74925-63-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Chlorodibromomethane	ジブロモクロロメタン	124-48-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
chlorotrifluoroethylene		79-38-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Chlorotrifluoromethane	クロロトリフルオロメタン	75-72-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Cryofluorane	ジクロロテトラフルオロエタン(CFC114)	76-14-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Decafluorobutane	デカフルオロブタン	355-25-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Dibromodichloromethane	ジブロモジクロロメタン	594-18-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Dibromodifluoromethane	ジブロモジフルオロメタン	75-61-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Dibromotetrafluoroethane	ジブロモテトラフルオロエタン	25497-30-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Dibromotetrafluoroethane (Halon 2402)	ジブロモテトラフルオロエタン	124-73-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Dichlorodifluoromethane	ジクロロジフルオロメタン	75-71-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
dichlorotetrafluoroethane	ジクロロテトラフルオロエタン	1320-37-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Ethane, 1-bromo-2-chloro-1,1,2-trifluoro-	エタン,1-ブロモ-2クロロ-1,1,2-トリフルオロ-	354-06-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Ethane, 2-bromo-1-chloro-1,1,2-trifluoro-	エタン,2-ブロモ-1-クロロ-1,1,2-トリフルオロ-	354-20-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Ethane, 2-bromo-2-chloro-1,1,1-trifluoro-, (R)-	エタン,2-ブロモ-2-クロロ-1,1,1-トリフルオロ-, (R)-	51230-17-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Ethane, 2-bromo-2-chloro-1,1,1-trifluoro-, (S)-	エタン,2-ブロモ-2-クロロ-1,1,1-トリフルオロ-, (S)-	51230-18-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Ethane, tribromo-	トリブロモエタン	598-16-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Ethene, tetrabromo-	トリブロモエタン	79-28-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Heptachlorofluoropropane	ヘプタクロロフルオロプロパン(CFC211)	135401-87-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Heptachlorofluoropropane	ヘプタクロロフルオロプロパン(CFC211)	422-78-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Heptafluoropropyl chloride	モノクロロヘプタフルオロプロパン	422-86-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Hexachlorodifluoropropane	ヘキサクロロジフルオロプロパン	134452-44-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Hexachloroethane	ヘキサクロロエタン	67-72-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Methane, bromotrichloro-	ブロモトリクロロメタン	75-62-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Methane, tribromofluoro-	トリブロモフルオロメタン	353-54-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Methyl bromide (Bromomethane)	臭化メチル	74-83-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Monochloropentafluoroethane	クロロペンタフルオロエタン	76-15-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Octafluoropropane	オクタフルオロプロパン	76-19-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Pentabromoethane	ペンタブロモエタン	75-95-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Pentachlorofluoroethane	ペンタクロロフルオロエタン	354-56-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Pentachlorotrifluoropropane		134237-31-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Perfluoroethane	ヘキサフルオロエタン	76-16-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Tetrachlorotetrafluoropropane	テトラクロロテトラフルオロプロパン	29255-31-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Tribromochloromethane	クロロトリブロモメタン	594-15-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Trichlorofluoromethane	トリクロロフルオロメタン	75-69-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Trichlorotrifluoroethane		26523-64-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
Trichlorotrifluoroethane		354-58-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory																	
Pentachlorobenzene	ペンタクロロベンゼン	608-93-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P				●												●		
	パラジクロロベンゼン	106-46-7	Prohibited Reduced	All applications and products	Relative to the weight of component parts and materials 5											●								
Pentachlorophenol (PCP) and its salts, all members	ペンタクロロフェノール(PCP) およびその塩、すべて			All applications and products	Relative to the weight of component parts and materials 5	P																		
Pentachlorophenol	ペンタクロロフェノール	87-86-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 5	P				●						●								
Potassium pentachlorophenate (Phenol, 2,3,4,5,6-pentachloro-, potassium salt (1:1))	カリウムペンタクロロフェノレート	7778-73-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 5	P				●														
Zinc bis(pentachlorophenolate)	ペンタクロロフェノール亜鉛	2917-32-0	Prohibited	All applications and products	Relative to the weight of component parts and materials Perchloric acid concentration 0.06	P				●														
Perchlorates, all members	過塩素酸塩、抜粋			All applications and products	Relative to the weight of component parts and materials Perchloric acid concentration 0.06	D/P																		
Lithium Perchlorate	過塩素酸リチウム	7791-03-9	Observation	All applications and products	Relative to the weight of component parts and materials Perchloric acid concentration 0.06	D	Mandatory																	
Magnesium Perchlorate	過塩素酸マグネシウム	10034-81-8	Observation	All applications and products	Relative to the weight of component parts and materials Perchloric acid concentration 0.06	D	Mandatory																	
Potassium Perchlorate	過塩素酸カリウム	7778-74-7	Observation	All applications and products	Relative to the weight of component parts and materials Perchloric acid concentration 0.06	D	Mandatory																	
Sodium Perchlorate	過塩素酸ナトリウム	7601-89-0	Observation	All applications and products	Relative to the weight of component parts and materials Perchloric acid concentration 0.06	D	Mandatory																	
Thallium(3+) perchlorate	三過塩素酸タリウム(Ⅲ)	15596-83-5	Observation	All applications and products	Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	D	Mandatory																	
Perfluorooctane sulfonates C8F17SO2X (X = OH, Metal salt, halide, amide, and other derivatives including polymers) (PFOS), all members	パーフルオロオクタンスルホン酸塩 C8F17SO2X (X = OH, 金属、ハロゲン、アミド、その他(ポリマーを含む)) (PFOS)、すべて			All applications and products	Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P																		
Perfluorooctane sulfonate acid	ベルフルオロオクタンスルホン酸(PFOS)	1763-23-1	Prohibited	All applications and products	Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P				●												●		
Perfluorooctane sulfonate anion	ベルフルオロオクタンスルホン酸アニオン	45298-90-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P																●		
Perfluoro-1-octanesulfonyl fluoride	ベルフルオロオクタンスルホン酸フルオリド (PFOSF)	307-35-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P				●												●		
2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl(perfluoro-C4-8-alkyl)-sulfonylamino]ethyl acrylate and vinylidene chloride	2-[メチル(ベルフルオロアルキル(炭素数4-8)スルホン酸)アミ]エチルアクリル酸、塩化ビニリデンポリマー混合体の2-プロペン酸2-メチルデシルエステル	306975-82-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P	Mandatory															●		
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	グリシン、N-エチル-N-[(ヘプタデカフルオロオクチル)スルフォニル]-、カリウム塩	2991-51-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P	Mandatory															●		



5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Perfluorooctane sulfonate potassium salt	ペルフルオロオクタンスルホン酸カリウム	2795-39-3	Prohibited	All applications and products	Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P				●										●	●		
Perfluorooctane sulfonate ammonium salt	ヘプタデカフルオロオktan-1-スルホン酸アンモニウム	29081-56-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P				●										●	●		
Perfluorooctane sulfonate lithium salt	リチウムペルフルオロオクタンスルホネート	29457-72-5	Prohibited	All applications and products	Relative to the weight of component parts and materials Parts, materials 1000 Sub-materials and auxiliary production materials 50	P				●										●	●		
Tetraethylammoniumheptadecafluorooctansulfonate	ヘプタデカフルオロオktan-1-スルホネート、テトラエチルアミン	56773-42-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P				●										●	●		
PFOS	メタクリル酸2-[エチル(ヘプタデカフルオロオクチル)スルホニル]アミン]エチル	376-14-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	メタクリル酸2-[ブチル(ヘプタデカフルオロオクチル)スルホニル]アミン]エチル	383-07-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	メタクリル酸2-[N-エチル(ヘプタデカフルオロオクチル)スルホニル]アミン]エチル	423-82-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(2-プロペニル)-1-オクタンスルホンアミド	423-86-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	754-91-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N,N,N-トリメチル-3-(ヘプタデカフルオロオクチル)スルホニルアミン]プロパン-1-アミン・ヨージド	1652-63-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-エチル-N-(2-ヒドロキシエチル)-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	1691-99-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-エチル-N-(ヘプタデカフルオロオクチル)スルホニル]グリシンエチル	1869-77-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N,N,N'-[ホスフィニルジントリス(オキシ-2,1-エタンジイル)]トリス(N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド)	2250-98-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-ブチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(2-ヒドロキシエチル)-1-オクタンスルホンアミド	2263-09-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-エチル-N-(ヘプタデカフルオロオクチル)スルホニル]グリシンカリウム	2991-50-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(2-ホスホノオキシ)エチル]-1-オクタンスルホンアミド	3820-83-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-エチル-[(ヘプタデカフルオロオクチル)スルホニル]グリシンナトリウム	3871-50-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	4151-50-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-[3-(ジメチルアミノ)プロピル]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	13417-01-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	メタクリル酸2-[(メチル) [(ヘプタデカフルオロオクチル)スルホニル]アミン]エチル	14650-24-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-(2-ヒドロキシエチル)-N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	24448-09-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	N-(2-プロペニル)-N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	24924-36-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	アクリル酸2-[N-メチル-N-(ヘプタデカフルオロオクチル)スルホニル]アミン]エチル	25268-77-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	オメガ-ヒドロキシ-アルファ-[2-[エチル(フルオロオクチル)スルホニル]アミン]エチル]-ポリ(オキシ-1,2-エタンジイル)	29117-08-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	[1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(3-(ジメチルオキシ)アミノ)プロピル]-1-オクタンスルホンアミド]	30295-51-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	りん酸アンモニウムビス[2-[エチル(ヘプタデカフルオロオクチル)スルホニル]アミン]エチル]	30381-98-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-メチル-1-オクタンスルホンアミド	31506-32-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	3-[(ヘプタデカフルオロオクチル)スルホニル]アミン]-N,N,N-トリメチル-1-プロパンアミン・クロリド	38006-74-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			
PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(フェニルメチル)-1-オクタンスルホンアミド	50598-29-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000															●			





5. List of NSK Environmentally Harmful Substances (details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)			
PFOS	ポリメチレンポリフェニレンイソシアナ酸ステアリルアルコール-N-エチル-1,1,2,2,3,3,4,4,5,5,5-ペンタフルオロ-N-(2-ヒドロキシエチル)-1-ペンタンスルホンアミド,N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,6-トリデカフルオロ-N-(2-ヒドロキシエチル)-1-ヘキサンスルホンアミド,N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-ペンタデカフルオロ-N-(2-ヒドロキシエチル)-1-ヘプタンスルホンアミド,N-エチル-1,1,2,2,3,3,4,4,4-ナノフルオロ-n-(2-ヒドロキシエチル)-1-ブタンスルホンアミド反応生成物,N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-ヘプタデカフルオロ-N-(2-ヒドロキシエチル)-1-オクタンスルホンアミド	68649-26-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																		●			
PFOS	2-[メチル[(アンデカフルオロヘンチル)スルホニル]アミノ]エチル-アルファ-(1-オキソ-2-プロペニル-オメガ-4-トキシポリ(オキシ-1,2-エタンジイル))2-[メチル[(トリデカフルオロヘキシル)スルホニル]アミノ]エチル-2-メチル-2-プロピルエイト,2-[メチル[(ペンタデカフルオロブチル)スルホニル]アミノ]エチル-2-メチル-2-プロピルエイト,2-[エチル[(ナノフルオロブチル)スルホニル]アミノ]エチル-2-メチル-2-プロペノイトポリマー,2-[エチル[(ヘプタデカフルオロオクテリル)スルホニル]アミノ]エチルエステル,2-プロペン酸	68867-60-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●		
PFOS	2-[メチル[(アンデカフルオロヘンチル)スルホニル]アミノ]エチル-2-メチル-2-プロペニル-2-メチル-1,3-ブタジエン,2-[メチル[(トリデカフルオロヘキシル)スルホニル]アミノ]エチル-2-メチル-2-プロピルエイト,2-[メチル[(ペンタデカフルオロブチル)スルホニル]アミノ]エチル-2-メチル-2-プロピルエイト,2-[エチル[(ナノフルオロブチル)スルホニル]アミノ]エチル-2-メチル-2-プロペノイトポリマー,2-[エチル[(ヘプタデカフルオロオクテリル)スルホニル]アミノ]エチルエステル,2-メチル-2-プロペン酸	68877-32-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●		
PFOS	ジアクアテトラクロロ[.mu-[N-エチル-N-(ヘプタデカフルオロオクテリル)スルホニル]グリシナト-kappa.O:kappa.O]-.mu.-ヒドロキシビス(2-メチルプロパノール)ジクロム	68891-96-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		68909-15-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		68958-61-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		70776-36-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		71463-78-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		71463-80-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		71487-20-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		91081-99-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		92265-81-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		94133-90-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		94313-84-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		98999-57-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		127133-66-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		129813-71-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		148240-78-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		148684-79-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		160901-25-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		178094-69-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	
PFOS		178535-22-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																				●	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
PFOS		182700-90-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																		●		
PFOS		192662-29-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		251099-16-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306973-46-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306973-47-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306974-19-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306974-28-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306974-45-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306974-63-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306975-56-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306975-57-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306975-84-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306975-85-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306976-25-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306975-55-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306977-58-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306978-04-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306978-65-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306979-40-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS		306980-27-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000																			●	
PFOS	ナトリウム=ペルフルオロオクタンスルホナート	4021-47-0	Prohibited Reduced	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000					●															
PFOS	ペルフルオロ(オクタン-1-スルホン酸)又はその塩	—	Prohibited Reduced	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000					●														●	
PFOS	ペルフルオロ(オクタン-1-スルホン酸)(別名PFOS)又はその塩	71463-74-6	Prohibited Reduced	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000					●															
PFOS	ペルフルオロ(オクタン-1-スルホン酸)(別名PFOS)又はその塩	91036-71-4	Prohibited Reduced	All applications and products	Relative to the weight of component parts and materials 1000					●															
PFNA, Perfluorononan-1-ic-acid and its sodium and ammonium salts				All applications and products	Relative to the weight of component parts and materials 1000																				
Perfluorononan-1-ic-acid and its sodium and ammonium salts		4149-60-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●							
Perfluorononan-1-ic-acid and its sodium and ammonium salts		375-95-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●							
Perfluorononan-1-ic-acid and its sodium and ammonium salts		21049-39-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●							
PFOA, Perfluorooctanoic acids C8F15O2H, its salts, esters, higher homologues and precursors, all members	PFOAとその塩類、パーフルオロオクタン酸 C8F15O2X (X=H, NH4 および 金属塩)、すべて			All applications and products		D																			
Ammonium salt of PFOA	ペンタデカフルオロオクタン酸アンモニウム	3825-26-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory											●					●		
Ethylperfluorooctanoate		3108-24-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																		



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
Methylperfluorooctanoate		376-27-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																		
Pentadecafluorooctyl fluoride		335-66-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																		
Potassium salt of PFOA		2395-00-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																		
Silver salt of PFOA		335-93-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																		
Sodium salt of PFOA	ペンタデカフルオロオクタナ酸ナトリウム	335-95-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory																		
PFOA - perfluorooctanoic acid	PFOA-ペフルフルオロオクタナ酸	335-67-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P	Mandatory											●				●			
Phenol	フェノール	108-95-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Phenol, 2,4-bis(1,1-dimethylethyl)-		96-76-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Phenol, 2,6-bis(1,1-dimethylethyl)-		128-39-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)- (UV 320)	2-(2H-ベンゾトリアゾール-2-イル)-4,6-ビス(1,1-ジメチルエチル)-フェノール	3846-71-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory			●								●							
Phenol, 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)- (UV-234)		70321-86-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)- (UV 329)		3147-75-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1-dimethylethyl)-6-(1-methylpropyl)- (UV 350)		36437-37-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory					●						●							
Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)- (UV 327)	2-(5-クロロベンゾトリアゾール)-4,6-ビス(1,1-ジメチルエチル)-フェノール	3864-99-1	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D	Mandatory					●						●							
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene		68610-51-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Phenol, 4,4'-(1-methyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-		1843-03-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
2,2',6,6'-Tetra-tert-butyl-4,4'-methylenediphenol	2,2',6,6'-テトラ-tert-ブチル-4,4'-メチレンジフェノール	118-82-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D						●													
Phenol, styrenated		61788-44-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
4-(1,1,3,3-tetramethylbutyl)phenol	4-(1,1,3,3-テトラメチルブチル)フェノール	140-66-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●							
6-sec-butyl-2,4-dinitrophenol	2-(1-メチルプロピル)-4,6-ジニトロフェノール	88-85-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D												●				●			
Phenol, 2,4,6-tris(1,1-dimethylethyl)-	2,4,6-トリス(1,1-ジメチルエチル)-フェノール	732-26-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000	D/P				●															
Phenylenediamines and its salts, selected	フェニレンジアミンおよびその塩、抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D																			
2,6-Dichloro-p-phenylenediamine	2,6-ジクロロ-p-フェニレンジアミン	609-20-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
2-Ethoxy-N4,N4-diethyl-p-phenylenediamine	2-エトキシ-4-(ジエチルアミノ)ベンゼンアミン	2359-46-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
2-Methoxy-5-methyl-p-phenylenediamine	2-メトキシ-5-メチル-p-フェニレンジアミン	5307-00-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
2-Nitro-p-phenylenediamine	ジアミノニトロベンゼン	5307-14-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
4-Chloro-o-phenylenediamine	4-クロロ-o-フェニレンジアミン	95-83-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Dimethyl-p-phenylenediamine	N,N-ジメチル-1,4-フェニレンジアミン	99-98-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
m-phenylenediamine	m-フェニレンジアミン	108-45-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
m-phenylenediamine dihydrochloride	m-フェニレンジアミン二塩酸塩	541-69-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
N,N'-Diphenyl-p-phenylenediamine	N,N'-ジフェニル-p-フェニレンジアミン	74-31-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
o-Phenylenediamine	o-フェニレンジアミン	95-54-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
o-phenylenediamine dihydrochloride	o-フェニレンジアミン二塩酸塩	615-28-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Phenylenediamines	フェニレンジアミン(異性体混合物)	25265-76-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
p-Phenylenediamine	p-フェニレンジアミン	106-50-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
p-Phenylenediamine dihydrochloride	p-フェニレンジアミン二塩酸塩	624-18-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
p-Phenylenediamine hydrochloride	p-フェニレンジアミンヒドロクロリド	55972-71-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphoric acid, bis[(1,1-dimethylethyl)phenyl] phenyl ester		65652-41-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphoric acid,(1,1-dimethylethyl)phenyl diphenyl ester		56803-37-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphoric acid, tris(2-methylphenyl) ester	O-トリクレジルフォスフェート	78-30-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-propyl) esters, zinc salts		84605-29-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphorodithioic acid,mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts		85940-28-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphorodithioic acid,mixed O,O-bis(iso-butyl and pentyl) esters, zinc salts		68457-79-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphorodithioic acid, mixed O,O-bis(sec-butyl and isooctyl) esters, zinc salts		113706-15-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts		68649-42-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
	N,N'-ジトリル-パラ-フェニレンジアミン、N-トリル-N'-キシリル-パラ-フェニレンジアミン又はN,N'-ジキシリル-パラ-フェニレンジアミン	620-91-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000					●													
Phthalates, selected	フタル酸類、抜粋			To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D/P																	
(1,2-Benzenedicarboxylic acid, diheptyl ester, branched and linear)		68515-44-6	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D																	
(1,2-Benzenedicarboxylic acid, dinonyl ester, branched and linear)		68515-45-7	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D																	
(1,2-Benzenedicarboxylic acid, diundecyl ester)	フタル酸ジウンデシル	3648-20-2	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D																	
(1,2-Benzenedicarboxylic acid, heptyl nonyl ester, branched and linear)		111381-89-6	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D																	
(1,2-Benzenedicarboxylic acid, heptyl undecyl ester, branched and linear)		111381-90-9	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D																	
(1,2-Benzenedicarboxylic acid, nonyl undecyl ester, branched and linear)		111381-91-0	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D																	
1,2-Benzenedicarboxylic acid: di-C6-8-branched alkylesters, C7-rich	フタル酸ジヘプテル	71888-89-6	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory											●				●	
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters		68515-51-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●					
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	1,2-ベンゼンジカルボン酸、ジ-C6~10-アルキルエステル; 1,2-ベンゼンジカルボン酸、デシル・ヘキシル・オクタジエステルと0.3%以上のフタル酸ジヘキシル	68648-93-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●					
Benzyl butyl phthalate (BBP) (1,2-Benzenedicarboxylic acid, 1-butyl 2-(phenylmethyl) ester)	フタル酸ブチルベンジル(BBP)	85-68-7	Reduced Observation	To be prohibited: All applications and products for the European market To be controlled: All applications and products except for the European market	Relative to the weight of component parts and materials 1000	D/P	Mandatory	●									●	●				●	
Bis(2-methoxyethyl) phthalate (1,2-Benzenedicarboxylic acid, 1,2-bis(2-methoxyethyl) ester)		117-82-8	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory											●				●	
Di(2-ethylhexyl)phthalate (DEHP) (1,2-Benzenedicarboxylic acid, 1,2-bis(2-ethylhexyl) ester)	フタル酸ビス(2-エチルヘキシル) (DEHP)	117-81-7	Reduced Observation	To be prohibited: All applications and products for the European market To be controlled: All applications and products except for the European market	Relative to the weight of component parts and materials 1000	D/P	Mandatory	●									●	●				●	
Dibutylphthalate (DBP) (1,2-Benzenedicarboxylic acid, 1,2-dibutyl ester)	フタル酸ジブチル(DBP)	84-74-2	Reduced Observation	To be prohibited: All applications and products for the European market To be controlled: All applications and products except for the European market	Relative to the weight of component parts and materials 1000	D/P	Mandatory	●									●	●				●	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
Dihexyl phthalate	フタル酸ジヘキシル	84-75-3	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory											●				●			
Diisobutylphthalate (DIBP) (1,2-Benzenedicarboxylic acid, 1,2-bis(2-methylpropyl) ester)	ジイソブチルフタレート;フタル酸ジイソブチル (DIBP)	84-69-5	Reduced Observation	To be prohibited: All applications and products for the European market To be controlled: All applications and products except for the European market	Relative to the weight of component parts and materials 1000	D/P	Mandatory	●									●	●					●		
Diisopentylphthalate (DIPP) (1,2-Benzenedicarboxylic acid, 1,2-bis(3-methylbutyl) ester)	フタル酸ジイソペンチル(DIPP)	605-50-5	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory											●					●		
Dipentylphthalate (1,2-Benzenedicarboxylic acid, 1,2-dipentyl ester)	フタル酸ジペンチル	131-18-0	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory											●					●		
Heptyl undecyl phthalate (1,2-Benzenedicarboxylic acid di-C7-11-branched and linear alkyl-esters)	フタル酸ヘブチルノニルウンデシル	68515-42-4	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory											●					●		
Di-isononyl phthalate	ジイソノニルフタレート	28553-12-0	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory																		
Di-isodecyl phthalate	ジイソデシルフタレート	26761-40-0	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory																		
Di-n-octylphthalate	ジ-n-オクチルフタレート	117-84-0	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory																		
Di-(C9-rich branched C8-C10-alkyl) phthalate		68515-48-0	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000	D	Mandatory																		
Phthalic anhydride		85-44-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Piperidine, 1,1'-(tetrathiodicarbonothioyl)bis-		120-54-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
	フタル酸ジイソオクチル (DIOP)	27554-26-3	Prohibited Reduced	All applications and products	Relative to the weight of component parts and materials 1000																				
	ビス(2-エチルヘキシル)フタレート、ジブチルフタレート、ベンジルブチルフタレート	—	Prohibited Reduced	All applications and products	Relative to the weight of component parts and materials 1000																				
	ジイソノニルフタレート、ジイソデシルフタレート、ジ-n-オクチルフタレート	—	Prohibited Reduced	All applications and products	Relative to the weight of component parts and materials 1000																				
Polyamine Curing Agents, selected	ポリアミン(硬化剤として)、抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D																			
bis-Hexamethylenetriamine	ビスヘキサメチレントリアミン	143-23-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Triethyleneglycoldiamine	1,8-ジアミノ-3,6-ジオキサオクタジン	929-59-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Poly(propyleneglycol)triamine	ポリ(プロピレングリコール) トリアミン	64852-22-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Poly(propyleneglycol)diamine	ポリ(プロピレングリコール) ジアミン	9046-10-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Pentaethylenhexamine	ペンタエチレンヘキサミン	4067-16-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Hexamethylenetetramine	ヘキサメチレンテトラミン	100-97-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																			
Polybrominated biphenyls (PBB), all members	ポリ臭化ビフェニル (PBB)、すべて			Note 20) To be prohibited: Applications subject to the RoHS Directives Note 21) To be reduced: Applications not subject to the RoHS Directives	Bromine concentration in homogeneous materials 1000	P																			
[1,1'-Biphenyl]-ar,ar'-diol, tetrabromo-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[pheno]	クロロメチルオキシランと4,4'-(1-メチルエチリデン)ビスフェノールのポリマーのテトラブロモ [1,1'-ビフェニル]-アル、アル'-ジオール	68758-75-8	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●																	
1,1'-Biphenyl, 2,2',3,4',5'-pentabromo-	2,2',3,4',5'-ペンタブロモビフェニル	73141-48-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●																	
1,1'-Biphenyl, 2,2',3,4,6-pentabromo-	2,2',3,4,6-ペンタブロモビフェニル	77910-04-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●																	
1,1'-Biphenyl, 2,2',3,5',6-pentabromo-	2,2',3,5',6-ペンタブロモビフェニル	88700-05-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●																	
1,1'-Biphenyl, 2,2',4,4',5-pentabromo-	2,2',4,4',5-ペンタブロモビフェニル	81397-99-1	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●																	
1,1'-Biphenyl, 2,2',4,4',6-pentabromo-	2,2',4,4',6-ペンタブロモビフェニル	97038-97-6	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●																	
1,1'-Biphenyl, 2,2',4,4'-tetrabromo-	2,2',4,4'-テトラブロモビフェニル	66115-57-9	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●																	
1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo-	ヘキサブロモビフェニル	59080-40-9	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●		●															

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
1,1'-Biphenyl, 2,2',4,5,5'-pentabromo-	2,2',4,5,5'-ペンタブロモビフェニル	67888-96-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2',4,5',6-pentabromo-	2,2',4,5',6-ペンタブロモビフェニル	59080-39-6	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2',4,5,6'-pentabromo-	2,2',4,5,6'-ペンタブロモビフェニル	80274-92-6	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2',4,5'-tetrabromo-	2,2',4,5'-テトラブロモビフェニル	60044-24-8	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2',4,6,6'-pentabromo-	2,2',4,6,6'-ペンタブロモビフェニル	97063-75-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2',4,6'-tetrabromo-	2,2',4,6'-テトラブロモビフェニル	97038-95-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2',5,5'-tetrabromo-	2,2',5,5'-テトラブロモビフェニル	59080-37-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2',5,6'-tetrabromo-	2,2',5,6'-テトラブロモビフェニル	60044-25-9	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2',5-tribromo-	2,2',5-トリブロモビフェニル	59080-34-1	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●								●							
1,1'-Biphenyl, 2,2',6,6'-tetrabromo-	2,2',6,6'-テトラブロモビフェニル	97038-96-5	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,2'-dibromo-	2,2'-ジブロモビフェニル	13029-09-9	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,3,4,4',5-pentabromo-	2,3,4,4',5-ペンタブロモビフェニル	96551-70-1	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2',3,4,4',5-pentabromo-	2',3,4,4',5-ペンタブロモビフェニル	74114-77-5	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,3',4,4'-tetrabromo-	2,3',4,4'-テトラブロモビフェニル	84303-45-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,3,4,5,6-pentabromo-	2,3,4,5,6-ペンタブロモビフェニル	38421-62-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,3',4',5-tetrabromo-	2,3',4',5-テトラブロモビフェニル	59080-38-5	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,3',5-tribromo-	2,3',5-トリブロモビフェニル	59080-35-2	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,3'-dibromo-	2,3'-ジブロモビフェニル	49602-90-6	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,3,3',4'-tetrabromo-	テトラブロモビフェニル	40088-45-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●				●				●							
1,1'-Biphenyl, 2,4,4',6-tetrabromo-	2,4,4',6-テトラブロモビフェニル	64258-02-2	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,4',5-tribromo-	2,4',5-トリブロモビフェニル	59080-36-3	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,4,6-tribromo-	2,4,6-トリブロモビフェニル	59080-33-0	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,4',6-tribromo-	2,4',6-トリブロモビフェニル	64258-03-3	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,4'-dibromo-	2,4'-ジブロモビフェニル	49602-91-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,4-dibromo-	2,4-ジブロモビフェニル	53592-10-2	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,5-dibromo-	2,5-ジブロモビフェニル	57422-77-2	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 2,6-dibromo-	2,6-ジブロモビフェニル	59080-32-9	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 3,3',4,4'-tetrabromo-	3,3',4,4'-テトラブロモビフェニル	77102-82-0	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 3,3',4,5'-tetrabromo-	3,3',4,5'-テトラブロモビフェニル	97038-98-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 3,3',5,5'-tetrabromo-	3,3',5,5'-テトラブロモビフェニル	16400-50-3	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 3,3'-dibromo-	3,3'-ジブロモビフェニル	16400-51-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 3,4,4',5-tetrabromo-	3,4,4',5-テトラブロモビフェニル	59589-92-3	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 3,4'-dibromo-	3,4'-ジブロモビフェニル	57186-90-0	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 3,4-dibromo-	3,4-ジブロモビフェニル	60108-72-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
1,1'-Biphenyl, 4,4'-dibromo-	4,4'-ジブロモビフェニル	92-86-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●				●				●							
2,2',3,3',5,5',6,6'-Octabromo-4-phenoxy-1,1'-biphenyl	2,2',3,3',5,5',6,6'-オクタブロモ-4-フェノキシ-1,1'-ビフェニル	83929-89-5	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
4,4',6,6'-Tetrabromo[1,1'-biphenyl]-2,2'-diol	4,4',6,6'-テトラブロモ[1,1'-ビフェニル]-2,2'-ジオール	14957-65-4	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●							
Decabromobiphenyl	デカブロモジフェニル	13654-09-6	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●								●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Firemaster BP-6	臭素化ビフェニル	59536-65-1	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●								●								
Firemaster FF-1	ポリ臭化ビフェニル(混合)	67774-32-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●								●								
Hexabromobiphenyl	ヘキサブロモビフェニル	36355-01-8	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●		●						●				●				
Octabromobiphenyl	オクタブロモビフェニル	27858-07-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P		●								●								
Bromkal 80	オクタブロモビフェニル	61288-13-9	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000	P	Mandatory	●								●								
2,2',4,4',5,5'-Hexabromodiphenyl ether		68631-49-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1					●													●	
2,2',4,4',5,6'-hexabromodiphenyl ether		207122-15-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1					●													●	
2,2',3,3',4,5,6-heptabromodiphenyl ether		446255-22-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1					●													●	
2,2',3,4,4',5,6-Heptabromodiphenyl ether		207122-16-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1					●													●	
2,2',4,4'-tetrabromodiphenyl ether	テトラブロモジフェニルエーテル	5436-43-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1					●													●	
2,2',4,4',5-Pentabromodiphenyl ether		60348-60-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1					●													●	
hexabromobiphenyl	ヘキサブロモビフェニル	61792-22-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Polybrominated diphenyl ethers (PBDE), all members	ポリ臭化ジフェニルエーテル (PBDE), すべて			Note 22) To be prohibited: Applications subject to the RoHS Directives Note 23) To be reduced: Applications not subject to the RoHS Directives	Bromine concentration in homogeneous materials 1000	D/P																		
Decabromodiphenyl ether ("Deca"; Decabromodiphenyl oxide) (Benzene, 1,1'-oxybis[2,3,4,5,6-pentabromo-])	デカブロモジフェニルエーテル	1163-19-5	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	D/P	Mandatory	●										●					●	
Dibromodiphenyl ethers	ジブロモジフェニルエーテル	2050-47-7	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory																	
Bromodiphenyl ether	ブロモジフェニルエーテル	101-55-3	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory																	
Nonabromodiphenylether	ノナブロモジフェニルエーテル	63936-56-1	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory																	
Octabromodiphenyl ether ("Octa") (Benzene, 1,1'-oxybis-, octabromo deriv.)	オクタブロモジフェニルエーテル	32536-52-0	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory	●															●	
Pentabromodiphenyl ether ("Penta") (Benzene, 1,1'-oxybis-, pentabromo deriv.)	ペンタブロモジフェニルエーテル	32534-81-9	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory	●		●													●	
Hexabromodiphenyl ether	ヘキサブロモジフェニルエーテル	36483-60-0	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory	●		●													●	
Heptabromodiphenylether and	ヘプタブロモジフェニルエーテル	68928-80-3	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory	●		●													●	
Tetrabromodiphenylether	テトラブロモジフェニルエーテル	40088-47-9	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory	●		●													●	
Tribromodiphenyl ether	トリブロモジフェニルエーテル	49690-94-0	Prohibited Reduced	Note 22 Note 23	Bromine concentration in homogeneous materials 1000	P	Mandatory																	
Diphenylether, octabromo derivative C12H2Br8O	ジフェニルエーテルオクタブロモ誘導体	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●								
Polybrominated terphenyls ( PBT ), all members	ポリ臭化ターフェニル ( PBT ), すべて			All applications and products	Relative to the weight of component parts and materials 1000	D																		
Dodecabromoterphenyl		79596-31-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Undecabromoterphenyl	1,1',4',1"-テルベンゼン/臭素(1:11)	83929-80-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
4-Bromo-p-terphenyl (1,1':4',1"-Terphenyl, 4-bromo-)	4-ブロモ-p-ターフェニル	1762-84-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
2"-Bromo-[1,1':4',1"]terphenyl		3282-24-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
2"-Bromo-[1,1':2',1"]terphenyl		75295-57-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
4,4'-Dibromo-p-terphenyl	4,4"-ジブロモ-p-ターフェニル	17788-94-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
3-bromo-p-terphenyl		1762-87-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Polychlorinated biphenyls ( PCB ), all members	ポリ塩化ビフェニル ( PCB ), すべて			All applications and products	Relative to the weight of component parts and materials 50	P																		
1,1'-Biphenyl, 2,4',5-trichloro-	2,4',5-トリクロロビフェニル	16606-02-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●													●	
2,2',4,4'-Tetrachlorobiphenyl	2,2',4,4'-テトラクロロビフェニル	2437-79-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●													●	
2,3',4,4',5,5'-HEXACHLOROBIPHENYL	2,3',4,4',5,5'-ヘキサクロロビフェニル	52663-72-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●													●	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
2,4,5,2',4',5'-Hexachlorobiphenyl	2,4,5,2',4',5'-ヘキサクロロビフェニル	35065-27-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●														
3,3',4,4'-TETRACHLOROBIPHENYL	3,3',4,4'-テトラクロロビフェニル	32598-13-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●														
3,4,5,3',4',5'-Hexachlorobiphenyl	3,3',4,4',5,5'-ヘキサクロロビフェニル	32774-16-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●														
Aroclor 1016	塩化ジフェニル(塩素16%)	12674-11-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P																		
Aroclor 1221	塩化ジフェニル(塩素21%)	11104-28-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P																		
Aroclor 1232	塩化ジフェニル(塩素32%)	11141-16-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P																		
Aroclor 1242	シクロジフェニル	53469-21-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P																		
Aroclor 1248	塩化ジフェニル(塩素48%)	12672-29-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P																		
AROCLOR 1254	塩化ジフェニル(塩素54%)	11097-69-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●														
Aroclor 1260	塩化ジフェニル(塩素60%)	11096-82-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P																		
Heptachloro-1,1'-biphenyl	ヘプタクロロビフェニル	28655-71-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●														
Nonachloro-1,1'-biphenyl	ノナクロロビフェニル	53742-07-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●														
pentachloro[1,1'-biphenyl]	ペンタクロロビフェニル	25429-29-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●														
Polychlorinated biphenyls	ポリクロロビフェニル	1336-36-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 50	P	Mandatory			●														
Tetrachloro(tetrachlorophenyl)benzene	オクタクロロビフェニル	31472-83-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50	P				●														
3,3'-Dichlorodiphenyl	3, 3' -ジクロロビフェニル	2050-67-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	4, 4' -ジクロロビフェニル	2050-68-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 3', 4, 4', 5, 5', 6, 6' -デカクロロビフェニル	2051-24-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2-クロロビフェニル	2051-60-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	3-クロロビフェニル	2051-61-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	4-クロロビフェニル	2051-62-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 3', 5, 5', 6, 6' -オクタクロロビフェニル	2136-99-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	3, 4' -ジクロロビフェニル	2974-90-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	3, 4 -ジクロロビフェニル	7012-37-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2' -ジクロロビフェニル	13029-08-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 4, 5-トリクロロビフェニル	15862-07-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 6, 6' -テトラクロロビフェニル	15968-05-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3-ジクロロビフェニル	16605-91-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3, 4, 5, 6-ペンタクロロビフェニル	18259-05-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	トリクロロビフェニル	25323-68-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3' -ジクロロビフェニル	25569-80-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	ヘキサクロロビフェニル	26601-64-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	テトラクロロビフェニル	26914-33-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	ar, ar, ar-トリクロロビフェニル	30605-61-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3', 4, 4', 5-ペンタクロロビフェニル	31508-00-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3', 4, 4' -テトラクロロビフェニル	32598-10-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3', 4', 5-テトラクロロビフェニル	32598-11-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 4, 4', 6-テトラクロロビフェニル	32598-12-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	2, 3, 3', 4, 4' -ベンタクロロビフェニル	32598-14-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●										●			
	2, 4, 4', 5-テトラクロロビフェニル	32690-93-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 4, 4' -テトラクロロビフェニル	33025-41-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	ar, ar' -ジクロロビフェニル	33039-81-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4', 6, 6' -オクタクロロビフェニル	33091-17-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 6-ジクロロビフェニル	33146-45-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 4-ジクロロビフェニル	33284-50-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 3', 5, 5' -テトラクロロビフェニル	33284-52-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 4, 5-テトラクロロビフェニル	33284-53-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 5, 6-テトラクロロビフェニル	33284-54-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 5-ジクロロビフェニル	34883-39-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 5-ジクロロビフェニル	34883-41-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 4' -ジクロロビフェニル	34883-43-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 4', 5' -ヘキサクロロビフェニル	35065-28-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 4', 5, 5' -ヘプタクロロビフェニル	35065-29-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4', 5' -ヘプタクロロビフェニル	35065-30-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 4, 6-トリクロロビフェニル	35693-92-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 5, 5' -テトラクロロビフェニル	35693-99-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 5, 5' -ヘキサクロロビフェニル	35694-04-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 4', 5 -ヘキサクロロビフェニル	35694-06-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4', 5, 5' -オクタクロロビフェニル	35694-08-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4' -テトラクロロビフェニル	36559-22-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 5-トリクロロビフェニル	37680-65-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 4-トリクロロビフェニル	37680-66-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3', 5' -トリクロロビフェニル	37680-68-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 3', 4-トリクロロビフェニル	37680-69-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 4, 5, 5' -ペンタクロロビフェニル	37680-73-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 5', 6-ペンタクロロビフェニル	38379-99-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 4, 4', 5-ペンタクロロビフェニル	38380-01-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 5' -ペンタクロロビフェニル	38380-02-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 4', 6-ペンタクロロビフェニル	38380-03-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4', 5', 6-ヘキサクロロビフェニル	38380-04-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 6' -ヘキサクロロビフェニル	38380-05-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4' -ヘキサクロロビフェニル	38380-07-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 4, 4', 5-ヘキサクロロビフェニル	38380-08-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 6, 6' -ヘキサクロロビフェニル	38411-22-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5, 6' -ヘプタクロロビフェニル	38411-25-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 6-トリクロロビフェニル	38444-73-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	2, 3', 6-トリクロロビフェニル	38444-76-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●										●			
	2, 4', 6-トリクロロビフェニル	38444-77-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3-トリクロロビフェニル	38444-78-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3', 5-トリクロロビフェニル	38444-81-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3'-トリクロロビフェニル	38444-84-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 4'-トリクロロビフェニル	38444-85-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2', 3, 4-トリクロロビフェニル	38444-86-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 3', 5-トリクロロビフェニル	38444-87-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 4', 5-トリクロロビフェニル	38444-88-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 4, 4'-トリクロロビフェニル	38444-90-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3'-テトラクロロビフェニル	38444-93-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 4, 4', 6-ペンタクロロビフェニル	39485-83-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 4, 4', 5, 5'-ヘキサクロロビフェニル	39635-31-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 5, 5'-ペンタクロロビフェニル	39635-32-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 3', 4, 5, 5'-ペンタクロロビフェニル	39635-33-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 4', 5, 5'-ヘキサクロロビフェニル	39635-34-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 4, 5, 5'-ヘキサクロロビフェニル	39635-35-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5', 6-ヘプタクロロビフェニル	40186-70-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5', 6'-オクタクロロビフェニル	40186-71-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4', 5, 5', 6'-ノナクロロビフェニル	40186-72-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 5, 6-ヘキサクロロビフェニル	41411-61-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 4, 5, 6-ヘキサクロロビフェニル	41411-62-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 4, 4', 5, 6-ヘキサクロロビフェニル	41411-63-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 4, 4', 5, 6-ヘプタクロロビフェニル	41411-64-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 5'-テトラクロロビフェニル	41464-39-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 4, 5'-テトラクロロビフェニル	41464-40-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 5, 6'-テトラクロロビフェニル	41464-41-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3', 5, 5'-テトラクロロビフェニル	41464-42-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 4'-テトラクロロビフェニル	41464-43-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3', 4', 6-テトラクロロビフェニル	41464-46-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 6'-テトラクロロビフェニル	41464-47-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 3', 4, 5'-テトラクロロビフェニル	41464-48-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 3', 5'-テトラクロロビフェニル	41464-49-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4', 5'-ペンタクロロビフェニル	41464-51-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4', 5, 6'-オクタクロロビフェニル	42740-50-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4', 5, 5'-ヘキサクロロビフェニル	51908-16-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 4', 6-テトラクロロビフェニル	52663-58-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4-テトラクロロビフェニル	52663-59-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
	2, 2', 3, 3', 6-ベンタクロロビフェニル	52663-60-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●										●			
	2, 2', 3, 5, 5', 6-ベンタクロロビフェニル	52663-62-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 5, 5', 6-ヘキサクロロビフェニル	52663-63-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 5, 6, 6'-ヘブタクロロビフェニル	52663-64-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 6, 6'-ヘブタクロロビフェニル	52663-65-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5', 6-ヘキサクロロビフェニル	52663-66-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 5, 5', 6-ヘブタクロロビフェニル	52663-67-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4', 5, 5', 6-ヘブタクロロビフェニル	52663-68-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 4', 5', 6-ヘブタクロロビフェニル	52663-69-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5', 6'-ヘブタクロロビフェニル	52663-70-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4', 6-ヘブタクロロビフェニル	52663-71-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5, 6, 6'-オクタクロロビフェニル	52663-73-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5, 5', 6-ヘブタクロロビフェニル	52663-74-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5, 5', 6'-オクタクロロビフェニル	52663-75-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 4', 5, 5', 6-オクタクロロビフェニル	52663-76-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5, 5', 6, 6'-ノナクロロビフェニル	52663-77-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4', 5, 6-オクタクロロビフェニル	52663-78-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 4', 5, 6, 6'-ノナクロロビフェニル	52663-79-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 5, 6-ヘキサクロロビフェニル	52704-70-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 5, 5'-ヘキサクロロビフェニル	52712-04-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 5, 5', 6-ヘブタクロロビフェニル	52712-05-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 5, 6'-ヘキサクロロビフェニル	52744-13-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 4, 5-トリクロロビフェニル	53555-66-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 4, 6-テトラクロロビフェニル	54230-22-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	(±)-2, 2', 3, 4, 6-ベンタクロロビフェニル	55215-17-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 3', 4, 5-ヘキサクロロビフェニル	55215-18-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 5-ベンタクロロビフェニル	55312-69-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 6-トリクロロビフェニル	55702-45-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 4-トリクロロビフェニル	55702-46-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3', 4-トリクロロビフェニル	55712-37-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3, 5-トリクロロビフェニル	55720-44-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	オクタクロロビフェニル	55722-26-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	(±)-2, 2', 3, 4, 4', 6-ヘキサクロロビフェニル	56030-56-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 4, 6, 6'-ベンタクロロビフェニル	56558-16-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3', 4, 4', 6-ベンタクロロビフェニル	56558-17-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 3', 4, 5', 6-ベンタクロロビフェニル	56558-18-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	3, 3', 4, 4', 5-ベンタクロロビフェニル	57465-28-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		
	2, 2', 3, 4, 4', 6'-ヘキサクロロビフェニル	59291-64-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●		

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classificatio n	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~ 16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	2, 3', 4, 4', 5', 6-ヘキサクロロビフェニル	59291-65-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●										●				
	2, 2', 3, 3', 5-ペンタクロロビフェニル	60145-20-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 4, 5', 6-ペンタクロロビフェニル	60145-21-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 4, 4', 5, 6'-ヘキサクロロビフェニル	60145-22-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 4', 5, 6'-ヘプタクロロビフェニル	60145-23-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3', 4, 6-テトラクロロビフェニル	60233-24-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4', 6'-ペンタクロロビフェニル	60233-25-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 3', 4, 6-ヘキサクロロビフェニル	61798-70-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 4, 4' (又は3, 4, 4')-トリクロロビフェニル	62461-62-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 4, 6-テトラクロロビフェニル	62796-65-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3', 4, 4', 5'-ペンタクロロビフェニル	65510-44-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 4'-ペンタクロロビフェニル	65510-45-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 4, 6'-テトラクロロビフェニル	68194-04-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4', 6-ペンタクロロビフェニル	68194-05-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 4, 5, 6'-ペンタクロロビフェニル	68194-06-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4', 5-ペンタクロロビフェニル	68194-07-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4', 6'-ヘキサクロロビフェニル	68194-08-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 5, 6, 6'-ヘキサクロロビフェニル	68194-09-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 5', 6-ペンタクロロビフェニル	68194-10-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 4', 5, 6-ペンタクロロビフェニル	68194-11-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3', 4, 5, 5'-ペンタクロロビフェニル	68194-12-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4', 5, 6-ヘキサクロロビフェニル	68194-13-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 5', 6-ヘキサクロロビフェニル	68194-14-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 5, 6'-ヘキサクロロビフェニル	68194-15-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 3', 4, 5, 6-ヘプタクロロビフェニル	68194-16-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 3', 4, 5, 5', 6-オクタクロロビフェニル	68194-17-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 4', 5'-ヘキサクロロビフェニル	69782-90-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4', 5, 5', 6-ヘプタクロロビフェニル	69782-91-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 5'-ペンタクロロビフェニル	70362-41-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 6-テトラクロロビフェニル	70362-45-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 5-テトラクロロビフェニル	70362-46-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 4, 5-テトラクロロビフェニル	70362-47-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3', 4', 5'-テトラクロロビフェニル	70362-48-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	3, 3', 4, 5-テトラクロロビフェニル	70362-49-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	3, 4, 4', 5-テトラクロロビフェニル	70362-50-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 5-テトラクロロビフェニル	70424-67-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4', 5-ペンタクロロビフェニル	70424-68-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 5-ペンタクロロビフェニル	70424-69-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classificatio n	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~ 16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	2, 3', 4', 5, 5' -ペンタクロロビフェニル	70424-70-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●										●				
	2, 3', 4, 5' -テトラクロロビフェニル	73575-52-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3', 4, 5-テトラクロロビフェニル	73575-53-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 6, 6' -ペンタクロロビフェニル	73575-54-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 5, 6' -ペンタクロロビフェニル	73575-55-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 5, 6-ペンタクロロビフェニル	73575-56-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 6' -ペンタクロロビフェニル	73575-57-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3', 5', 6-テトラクロロビフェニル	74338-23-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4-テトラクロロビフェニル	74338-24-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 6-テトラクロロビフェニル	74472-33-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 4', 5-テトラクロロビフェニル	74472-34-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 6-ペンタクロロビフェニル	74472-35-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 5, 6-ペンタクロロビフェニル	74472-36-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 4, 4', 5-ペンタクロロビフェニル	74472-37-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 4, 4', 6-ペンタクロロビフェニル	74472-38-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3', 4', 5', 6-ペンタクロロビフェニル	74472-39-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 6, 6' -ヘキサクロロビフェニル	74472-40-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4', 5, 6' -ヘキサクロロビフェニル	74472-41-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 4', 6-ヘキサクロロビフェニル	74472-42-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 5', 6-ヘキサクロロビフェニル	74472-43-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4', 5, 6-ヘキサクロロビフェニル	74472-44-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4', 5', 6-ヘキサクロロビフェニル	74472-45-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 5, 5', 6-ヘキサクロロビフェニル	74472-46-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 4', 5, 6-ヘプタクロロビフェニル	74472-47-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 4', 6, 6'-ヘプタクロロビフェニル	74472-48-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 5, 6, 6'-ヘプタクロロビフェニル	74472-49-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 4', 5', 6-ヘプタクロロビフェニル	74472-50-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 5, 5', 6-ヘプタクロロビフェニル	74472-51-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4, 4', 5, 6, 6'-オクタクロロビフェニル	74472-52-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4, 4', 5, 5', 6-オクタクロロビフェニル	74472-53-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 2', 3, 4', 5, 6, 6'-ヘプタクロロビフェニル	74487-85-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, 3', 4', 5' -ペンタクロロビフェニル	76842-07-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 4', ?-トリクロロビフェニル	94487-00-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 3, ?' (又は3, 4, ?')-トリクロロビフェニル	97122-18-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	2, 4, ?' (2, 6, ?' 又は3, 5, ?')-トリクロロビフェニル	97122-20-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	(+)-2, 2', 3, 4, 6-ペンタクロロビフェニル	99554-10-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	(-)-2, 2', 3, 4, 6-ペンタクロロビフェニル	99554-11-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			
	(+)-2, 2', 3, 4, 4', 6-ヘキサクロロビフェニル	99554-12-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●											●			

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	(-)2, 2', 3, 4, 4', 6-ヘキサクロロピフェニル	99554-13-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 4, 4', 5(又は2, 2', 3, 4, 4', 5')-ヘキサクロロピフェニル	108145-39-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 4, 4', 6, 6'-オクタクロロピフェニル	109328-45-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 4, 4', 6, 6'-オクタクロロピフェニル	109328-46-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 6, 6', ?-ヘキサクロロピフェニル	111276-74-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 4, 4', ?, ?-ペンタクロロピフェニル	111276-75-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 6', ?, ?-ペンタクロロピフェニル	111276-76-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 5, 6', ?, ?-ヘキサクロロピフェニル	111276-77-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, ?, ?-トリクロロピフェニル	111276-78-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	4, 4', ?, ?, ?, ?-ヘキサクロロピフェニル	111276-79-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 5, 6', ?, ?, ?-ヘプタクロロピフェニル	111276-80-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	4, 4', ?, ?, ?-ペンタクロロピフェニル	111276-81-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3, 3', 4, 4', 5, 5', ?-オクタクロロピフェニル	111276-82-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 5, 6', ?, ?, ?-オクタクロロピフェニル	111276-83-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 6-テトラクロロピフェニル	151262-31-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(-)-2, 2', 3, 6-テトラクロロピフェニル	151262-32-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 5', 6-ペンタクロロピフェニル	151262-34-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(-)-2, 2', 3, 5', 6-ペンタクロロピフェニル	151262-35-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 6-ペンタクロロピフェニル	153153-43-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 6-ペンタクロロピフェニル	153153-44-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 4', 6-ペンタクロロピフェニル	153153-45-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 4', 6-ペンタクロロピフェニル	153153-46-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 4, 6'-ヘキサクロロピフェニル	153153-47-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 4, 6'-ヘキサクロロピフェニル	153153-48-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 6, 6'-ヘキサクロロピフェニル	153153-49-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 6, 6'-ヘキサクロロピフェニル	153153-50-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 4', 5', 6-ヘキサクロロピフェニル	159000-96-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 4', 5', 6-ヘキサクロロピフェニル	159000-97-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 4, 4', 6-ヘプタクロロピフェニル	176914-46-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 4, 4', 5', 6-ヘプタクロロピフェニル	176914-47-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 4, 4', 6-ヘプタクロロピフェニル	176914-48-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 4, 4', 5', 6-ヘプタクロロピフェニル	176914-49-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 4, 4', 5, 6'-オクタクロロピフェニル	177020-15-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 4, 4', 5, 6'-オクタクロロピフェニル	177020-16-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 4, 6-ヘキサクロロピフェニル	179678-26-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 4, 6-ヘキサクロロピフェニル	179678-27-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 4, 5, 6'-ヘプタクロロピフェニル	179678-28-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 4, 5, 6'-ヘプタクロロピフェニル	179678-29-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	(R)-2, 2', 3, 3', 4, 5', 6-ヘブタクロロビフェニル	179678-30-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 4, 5', 6-ヘブタクロロビフェニル	179678-31-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 4, 6, 6'-ヘブタクロロビフェニル	179678-32-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 4, 6, 6'-ヘブタクロロビフェニル	179678-33-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 3', 5, 6'-ヘキサクロロビフェニル	205991-67-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 3', 5, 6'-ヘキサクロロビフェニル	205991-68-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(R)-2, 2', 3, 4, 5', 6-ヘキサクロロビフェニル	205991-69-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(S)-2, 2', 3, 4, 5', 6-ヘキサクロロビフェニル	205991-70-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 3', 6-ベンタクロロビフェニル	207004-27-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 3', 4, 6'-ヘキサクロロビフェニル	207004-28-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(-)-2, 2', 3, 3', 5, 6'-ヘキサクロロビフェニル	207004-29-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 3', 6, 6'-ヘキサクロロビフェニル	207004-30-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(-)-2, 2', 3, 3', 4, 5, 6'-ヘブタクロロビフェニル	207004-31-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 3', 4, 6, 6'-ヘブタクロロビフェニル	207004-32-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 3', 4, 6-ヘキサクロロビフェニル	207004-33-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 3', 4, 5', 6-ヘブタクロロビフェニル	207004-34-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 3', 4, 4', 5, 6'-オクタクロロビフェニル	207004-35-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 4', 5', 6-ヘキサクロロビフェニル	207004-36-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 4, 5', 6-ヘキサクロロビフェニル	228420-06-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(+)-2, 2', 3, 4, 4', 5', 6-ヘブタクロロビフェニル	228420-07-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(±)-2, 2', 3, 4, 6-ベンタクロロビフェニル	99554-08-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	(±)-2, 2', 3, 4, 4', 6-ヘキサクロロビフェニル	99554-09-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	1, 8, 9, 10, 11, 11-ヘキサクロロ-4-オキサテトラシクロ[6.2.1.0(2,7).0(3,5)]ウンデカ-9-エン	6058-23-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	rel-(1R, 4S, 7S, 8S, 9S)-2, 3, 4, 5, 6, 9-ヘキサクロロトリスシクロ[5.2.1.0(4, 8)]デカ-2, 5-ジエン	56534-03-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	rel-(1R, 4S, 7S, 8S, 10S)-2, 3, 4, 5, 6, 10-ヘキサクロロトリスシクロ[5.2.1.0(4, 8)]デカ-2, 5-ジエン	56641-38-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	N, N'-ジ-2-トリル-1, 4-フェニレンジアミン	15017-02-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 4, 4', 5, 6'-ヘキサプロモビフェニル	36402-15-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 3', 5, 5'-ヘキサプロモビフェニル	55066-76-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 4, 4', 6, 6'-ヘキサプロモビフェニル	59261-08-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	3, 3', 4, 4', 5, 5'-ヘキサプロモビフェニル	60044-26-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 4, 4', 5'-ヘキサプロモビフェニル	67888-98-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3', 4, 4', 5, 5'-ヘキサプロモビフェニル	67888-99-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 4', 5', 6-ヘキサプロモビフェニル	69278-59-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3, 3', 4, 4', 5-ヘキサプロモビフェニル	77607-09-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 4, 4', 5-ヘキサプロモビフェニル	81381-52-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 3', 4, 4'-ヘキサプロモビフェニル	82865-89-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 3', 4, 5'-ヘキサプロモビフェニル	82865-90-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	2, 3, 3', 4', 5', 6-ヘキサブロモビフェニル	82865-91-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3, 3', 4, 4', 5', 6-ヘキサブロモビフェニル	84303-47-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3', 4, 4', 5', 6-ヘキサブロモビフェニル	84303-48-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 4', 6, 6'-ヘキサブロモビフェニル	93261-83-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 3', 4, 6'-ヘキサブロモビフェニル	119264-50-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 3', 5, 6'-ヘキサブロモビフェニル	119264-51-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 4, 5', 6-ヘキサブロモビフェニル	119264-52-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 5, 5', 6-ヘキサブロモビフェニル	119264-53-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 2', 3, 4, 5, 5'-ヘキサブロモビフェニル	120991-47-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	2, 3, 3', 4, 5, 5'-ヘキサブロモビフェニル	120991-48-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	1, 2-ジブロモ-4-(3, 4-ジブロモフェノキシ)ベンゼン	93703-48-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	1, 3-ジブロモ-5-(3, 5-ジブロモフェノキシ)ベンゼン	103173-66-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	1, 2, 3, 4, 5-ペンタブロモ-6-フェノキシベンゼン	189084-65-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	トリブロモ(トリブロモフェノキシ)ベンゼン	31153-30-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50			●		●														
	1, 3, 5-トリブロモ-2-(2, 4, 6-トリブロモフェノキシ)ベンゼン	35854-94-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	1, 2, 4, 5-テトラブロモ-3-(2, 4, 6-トリブロモフェノキシ)ベンゼン	116995-32-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	1, 2, 3, 5-テトラブロモ-4-(2, 4, 6-トリブロモフェノキシ)ベンゼン	117948-63-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	クロロビフェニル	27323-18-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●			●											
	hexachlorobiphenyl (2,2',4,4',6,6'-PCB)	33979-03-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 50					●														
	Polychlorinated naphthalenes, all members	ポリ塩化ナフタレン, すべて		All applications and products	Relative to the weight of component parts and materials 1000	P																		
	Naphthalene, chloro derivatives	ポリ塩化ナフタレン	70776-03-3	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000	P	Mandatory			●														
	Naphthalene, trichloro-	トリクロロナフタレン	1321-65-9	Prohibited	Relative to the weight of component parts and materials 1000	P	Mandatory			●														
	Pentachloronaphthalene	ペンタクロロナフタレン	1321-64-8	Prohibited	Relative to the weight of component parts and materials 1000	P	Mandatory			●														
	1-Chloronaphthalene	1-クロロナフタレン	90-13-1	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	2-Chloronaphthalene	2-クロロナフタレン	91-58-7	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	1,5-DICHLORONAPHTHALENE	1, 5-ジクロロナフタレン	1825-30-5	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	1,4-DICHLORONAPHTHALENE	1, 4-ジクロロナフタレン	1825-31-6	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	1,2-DICHLORONAPHTHALENE	1, 2-ジクロロナフタレン	2050-69-3	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	1,6-Dichloronaphthalene	1, 6-ジクロロナフタレン	2050-72-8	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	1,7-Dichloronaphthalene	1, 7-ジクロロナフタレン	2050-73-9	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	1,8-Dichloronaphthalene	1, 8-ジクロロナフタレン	2050-74-0	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	2,3-Dichloronaphthalene	2, 3-ジクロロナフタレン	2050-75-1	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	2,6-Dichloronaphthalene	2, 6-ジクロロナフタレン	2065-70-5	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	1,3-Dichloronaphthalene	1, 3-ジクロロナフタレン	2198-75-6	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														
	2,7-Dichloronaphthalene	2, 7-ジクロロナフタレン	2198-77-8	Prohibited	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●														



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
1,4,6-Trichloronaphthalene	1, 4, 6-トリクロロナフタレン	2437-54-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●										●				
1,4,5-Trichloronaphthalene	1, 3, 5-トリクロロナフタレン	2437-55-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,4,5,8-Tetrachloronaphthalene	1, 4, 5, 8-テトラクロロナフタレン	3432-57-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,4,8-Tetrachloronaphthalene	1, 2, 4, 8-テトラクロロナフタレン	6529-87-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,4,5-Tetrachloronaphthalene	1, 2, 4, 5-テトラクロロナフタレン	6733-54-6	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,3,6,7,8-Hexachloronaphthalene	1, 2, 3, 6, 7, 8-ヘキサクロロナフタレン	17062-87-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,3,4-Tetrachloronaphthalene	1, 2, 3, 4-テトラクロロナフタレン	20020-02-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,3,5,8-Tetrachloronaphthalene	1, 3, 5, 8-テトラクロロナフタレン	31604-28-1	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
Heptachloronaphthalene	ヘプタクロロナフタレン	32241-08-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
2,3,6,7-Tetrachloronaphthalene	2, 3, 6, 7-テトラクロロナフタレン	34588-40-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,4-Trichloronaphthalene	1, 2, 4-トリクロロナフタレン	50402-51-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,3-Trichloronaphthalene	1, 2, 3-トリクロロナフタレン	50402-52-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,3,5-Trichloronaphthalene	1, 3, 5-トリクロロナフタレン	51570-43-5	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,6-Trichloronaphthalene	1, 3, 6-トリクロロナフタレン	51570-44-6	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,4,6-Tetrachloronaphthalene	1, 2, 4, 6-テトラクロロナフタレン	51570-45-7	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,3,5-Tetrachloronaphthalene	1, 2, 3, 5-テトラクロロナフタレン	53555-63-8	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,3,5,7-Tetrachloronaphthalene	1, 2, 5, 7-テトラクロロナフタレン	53555-64-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,3,5,7-Pentachloronaphthalene	1, 2, 3, 5, 7-ペンタクロロナフタレン	53555-65-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,5-Trichloronaphthalene	1, 2, 5-トリクロロナフタレン	55720-33-7	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,7-Trichloronaphthalene	1, 2, 7-トリクロロナフタレン	55720-34-8	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,8-Trichloronaphthalene	1, 2, 8-トリクロロナフタレン	55720-35-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,3,6-Trichloronaphthalene	1, 3, 6-トリクロロナフタレン	55720-36-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,3,7-Trichloronaphthalene	1, 3, 7-トリクロロナフタレン	55720-37-1	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,3,8-Trichloronaphthalene	1, 3, 8-トリクロロナフタレン	55720-38-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,6,7-Trichloronaphthalene	1, 6, 7-トリクロロナフタレン	55720-39-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
2,3,6-Trichloronaphthalene	2, 3, 6-トリクロロナフタレン	55720-40-6	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,3,7-Tetrachloronaphthalene	1, 2, 3, 7-テトラクロロナフタレン	55720-41-7	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,3,6,7-Tetrachloronaphthalene	1, 3, 6, 7-テトラクロロナフタレン	55720-42-8	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,4,6,7-Tetrachloronaphthalene	1, 4, 6, 7-テトラクロロナフタレン	55720-43-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,3,4,5,6,7-Heptachloronaphthalene	1, 2, 3, 4, 5, 6, 7-ペンタクロロナフタレン	58863-14-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
1,2,3,4,5,6,8-Heptachloronaphthalene	1, 2, 3, 4, 5, 6, 8-ヘンタクロロナフタレン	58863-15-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,4,5,6-Hexachloronaphthalene	1, 2, 3, 4, 5, 6-ヘキサクロロナフタレン	58877-88-6	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,4,7-Tetrachloronaphthalene	1, 2, 4, 7-テトラクロロナフタレン	67922-21-8	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,5,6-Tetrachloronaphthalene	1, 2, 5, 6-テトラクロロナフタレン	67922-22-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,5,7-Tetrachloronaphthalene	1, 2, 5, 7-テトラクロロナフタレン	67922-23-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,6,8-Tetrachloronaphthalene	1, 2, 6, 8-テトラクロロナフタレン	67922-24-1	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,4,5-Pentachloronaphthalene	1, 2, 3, 4, 5-ペンタクロロナフタレン	67922-25-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,4,6-Pentachloronaphthalene	1, 2, 3, 4, 6-ペンタクロロナフタレン	67922-26-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,4,5,7-Hexachloronaphthalene	1, 2, 3, 4, 5, 7-ヘキサクロロナフタレン	67922-27-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,4,5,6,8-Hexachloronaphthalene	1, 2, 4, 5, 6, 8-ヘキサクロロナフタレン	90948-28-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,4,5,7,8-Hexachloronaphthalene	1, 2, 4, 5, 7, 8-ヘキサクロロナフタレン	103426-92-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,4,5,8-Hexachloronaphthalene	1, 2, 3, 4, 5, 8-ヘキサクロロナフタレン	103426-93-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,5,7,8-Hexachloronaphthalene	1, 2, 3, 5, 7, 8-ヘキサクロロナフタレン	103426-94-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,5,6,8-Hexachloronaphthalene	1, 2, 3, 5, 6, 8-ヘキサクロロナフタレン	103426-95-5	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,4,6,7-Hexachloronaphthalene	1, 2, 3, 4, 6, 7-ヘキサクロロナフタレン	103426-96-6	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,5,6,7-Hexachloronaphthalene	1, 2, 3, 5, 6, 7-ヘキサクロロナフタレン	103426-97-7	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,6-Tetrachloronaphthalene	1, 2, 3, 6-テトラクロロナフタレン	149864-78-8	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,6,7-Tetrachloronaphthalene	1, 2, 3, 6-テトラクロロナフタレン	149864-79-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,5,8-Tetrachloronaphthalene	1, 2, 5, 8-テトラクロロナフタレン	149864-80-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,8-Tetrachloronaphthalene	1, 2, 3, 8-テトラクロロナフタレン	149864-81-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,7,8-Tetrachloronaphthalene	1, 2, 7, 8-テトラクロロナフタレン	149864-82-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,7,8-Pentachloronaphthalene	1, 2, 3, 7, 8-ペンタクロロナフタレン	150205-21-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,3,6,8-Tetrachloronaphthalene	1, 3, 6, 8-テトラクロロナフタレン	150224-15-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,6,7-Pentachloronaphthalene	1, 2, 3, 6, 7-ペンタクロロナフタレン	150224-16-1	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,4,6,7-Pentachloronaphthalene	1, 2, 4, 6, 7-ペンタクロロナフタレン	150224-17-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,3,5,6-Pentachloronaphthalene	1, 2, 3, 5, 6-ペンタクロロナフタレン	150224-18-3	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,4,5,7-Pentachloronaphthalene	1, 2, 4, 5, 7-ペンタクロロナフタレン	150224-19-4	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,4,5,6-Pentachloronaphthalene	1, 2, 4, 5, 6-ペンタクロロナフタレン	150224-20-7	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,4,7,8-Pentachloronaphthalene	1, 2, 4, 7, 8-ペンタクロロナフタレン	150224-21-8	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															
1,2,4,6,8-Pentachloronaphthalene	1, 2, 4, 6, 8-ペンタクロロナフタレン	150224-22-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●															



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
1,2,3,6,8-Pentachloronaphthalene	1, 2, 3, 6, 8-ペンタクロロナフタレン	150224-23-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●											●			
1,2,3,5,8-Pentachloronaphthalene	1, 2, 3, 5, 8-ペンタクロロナフタレン	150224-24-1	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●												●		
1,2,4,5,8-Pentachloronaphthalene	1, 2, 4, 5, 8-ペンタクロロナフタレン	150224-25-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●												●		
hexachloronaphthalene (Halowax 1014)	ポリ塩化ナフタレン	1335-87-1	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●												●		
tetrachloronaphthalene	ポリ塩化ナフタレン	1335-88-2	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●												●		
octachloronaphthalene	ポリ塩化ナフタレン	2234-13-1	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●												●		
chloronaphthalene	ポリ塩化ナフタレン	25586-43-0	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●												●		
dichloronaphthalene	ポリ塩化ナフタレン	28699-88-9	Prohibited	All applications and products	Prohibited from intentional use Impurity: Relative to the weight of component parts and materials 1000		Mandatory			●												●		
Polychlorinated terphenyls ( PCT ), all members	ポリ塩化ターフェニル(PCT), すべて			All applications and products	Relative to the weight of component parts and materials 10	P																		
Terphenyl, chlorinated	ポリ塩化ターフェニル(PCT)	61788-33-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 10	P	Mandatory									●								
	ポリ塩化テルフェニル類(PCTs)	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 10											●								
Polycyclic aromatic hydrocarbons (PAH; PCAH) in extender oils and extender oils in tyres, selected	多環芳香族炭化水素 (PAH; PCAH), 抜粋 エキステンダー油およびタイヤ中の エキステンダー油に含有するもの			Extender oil and Extender oil in tires		P																		
Anthracene	アントラセン	120-12-7	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P												●	●					
Benz[a]anthracene	ベンゾアントラセン	56-55-3	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P	Mandatory									●						●		
Benz[e]acephenanthrylene	ベンゾアセフェナンテン	205-99-2	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P	Mandatory									●						●		
Benzo[a]pyrene	ベンゾピレン	50-32-8	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 1	P	Mandatory									●		●	●			●		
Benzo[e]pyrene	ベンゾピレン	192-97-2	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P	Mandatory									●						●		
Benzo[j]fluoranthene	ベンゾフルオランテン	205-82-3	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P	Mandatory									●						●		
Benzo[k]fluoranthene	ベンゾフルオランテン	207-08-9	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P	Mandatory									●						●		
Chrysene	クリセン	218-01-9	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P	Mandatory									●						●		
Dibenz[a,h]anthracene	ジベンゾアントラセン	53-70-3	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P	Mandatory									●						●		
Naphthalene	ナフタレン	91-20-3	Prohibited	Extender oil and Extender oil in tires	Concentration in extender oil 10	P																		
Polycyclic aromatic hydrocarbons (PAH; PCAH) in polymers, selected	ポリマーの中の多環芳香族炭化水素 (PAH; PCAH), 抜粋			All applications and products		D																		
Anthracene	アントラセン	120-12-7	Observation	All applications and products	Relative to the weight of component parts and materials 200	D												●						
Benz[a]anthracene	ベンゾアントラセン	56-55-3	Observation	All applications and products	Relative to the weight of component parts and materials 200	D	Mandatory									●						●		
Benz[e]acephenanthrylene	ベンゾアセフェナンテン	205-99-2	Observation	All applications and products	Relative to the weight of component parts and materials 200	D	Mandatory									●						●		
Benzo[a]pyrene	ベンゾピレン	50-32-8	Observation	All applications and products	Relative to the weight of component parts and materials 20	D	Mandatory									●		●	●			●		
Benzo[e]pyrene	ベンゾピレン	192-97-2	Observation	All applications and products	Relative to the weight of component parts and materials 200	D	Mandatory									●						●		
Benzo[j]fluoranthene	ベンゾフルオランテン	205-82-3	Observation	All applications and products	Relative to the weight of component parts and materials 200	D	Mandatory									●						●		
Benzo[k]fluoranthene	ベンゾフルオランテン	207-08-9	Observation	All applications and products	Relative to the weight of component parts and materials 200	D	Mandatory									●						●		
Chrysene	クリセン	218-01-9	Observation	All applications and products	Relative to the weight of component parts and materials 200	D	Mandatory									●						●		
Dibenz[a,h]anthracene	ジベンゾアントラセン	53-70-3	Observation	All applications and products	Relative to the weight of component parts and materials 200	D	Mandatory									●						●		
Naphthalene	ナフタレン	91-20-3	Observation	All applications and products	Relative to the weight of component parts and materials 10	D																		
1,3-Propanesultone		1120-71-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D	Mandatory											●				●		
2-Propanone, reaction products with diphenylamine (PREPOD)		68412-48-6	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																		
Pyrrolidones, selected	ピロリドン, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000	D																		

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
1-Methylpyrrolidin-2-one (2-Pyrrolidinone, 1-methyl) (NMP)	N-メチル-2-ピロリドン	872-50-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D												●				●		
N-Ethyl-2-pyrrolidone (NEP)		2687-91-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	●	
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite		71011-24-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite		71011-26-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite		68953-58-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Resin acids and Rosin acids, calcium salts		9007-13-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Resin acids and Rosin acids, sodium salts		61790-51-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Resin acids and Rosin acids, hydrogenated, esters with pentaerythritol		64365-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Resin acids and Rosin acids, hydrogenated, esters with glycerol		65997-13-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Resin acids and Rosin acids, hydrogenated, methyl esters		8050-15-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Radioactive substances (including scrap metal contaminants), all members	放射性物質 (スクラップ金属のコンタミを含む), すべて			All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited	D																		
Plutonium	プルトニウム	7440-07-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited	D																		
Radium	ラジウム	7440-14-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited	D																		
Thorium	トリウム	7440-29-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited	D	Mandatory																	
Thorium Dioxide	二酸化トリウム	1314-20-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited	D																		
Uranium	ウラニウム	7440-61-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited	D	Mandatory																	
Uranium Compounds	ウラニウム化合物	—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited	D																		
Selenium and its compounds, all members	セレンおよびその化合物, すべて			All applications and products	Relative to the weight of component parts and materials 1000	D/P																		
Barium selenite	亜セレン酸バリウム	13718-59-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Bis(ethylselenyl)diron tetranitrosyl (6CI)		15025-89-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Dimethylselenide		593-79-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Hydrogen selenide	セレン化水素	7783-07-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Iron selenide	セレン化鉄	1310-32-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Selenic acid	セレン酸	7783-08-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Selenious acid	亜セレン酸	7783-00-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Selenium	セレン	7782-49-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Selenium dioxide	二酸化セレン	7446-08-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Selenium hexafluoride	フッ化セレン(VI)	7783-79-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Selenium oxide		12640-89-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Selenium sulfide		7446-34-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Sodium-selenite		10102-18-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Thallium selenide (Tl2Se)	セレン化タリウム( I )	15572-25-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Thallium(I) selenide	セレン化タリウム( I )	12039-52-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Zinc selenide	セレン化亜鉛	1315-09-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Silica, crystalline	結晶性シリカ	14808-60-7	Observation	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D																		
Sodium azide	アジ化ナトリウム	26628-22-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Styrene ( Vinyl benzene )	スチレン (ビニルベンゼン)	100-42-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Styrene oxide (Epoxy styrene)	酸化スチレン(エポキシスチレン)	96-09-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Succinic anhydride, octadecenyl-		28777-98-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Sulfonic acids, C10-18-alkane, phenyl esters		70775-94-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Sulfonic acids, petroleum, calcium salts, overbased		68783-96-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Sulfonic acids, petroleum, barium salts		61790-48-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Sulfonic acids, petroleum, calcium salts		61789-86-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Sulfonic acids, petroleum, magnesium salts		61789-87-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Sulfonic acids, petroleum, sodium salts		68608-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Sulfur hexafluoride	六フッ化硫黄	2551-62-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Tall Oil		8002-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Tall oil pitch		8016-81-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Tetrabromobisphenol A (TBBPA)	テトラブロモビスフェノールA (TBBPA)	79-94-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000 or Relative to the weight of laminated sheets Total bromine concentration 900	D	Optional																	
Tetrachlorobenzene, all members	テトラクロロベンゼン, すべて			All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P																		
1,2,3,4-tetrachlorobenzene	1,2,3,4-テトラクロロベンゼン	634-66-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P															●			
1,2,3,5-Tetrachlorobenzene (Benzene, 1,2,3,5-tetrachloro- )	1,2,3,5-テトラクロロベンゼン	634-90-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P															●			
Benzene, tetrachloro-	テトラクロロベンゼン	12408-10-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P															●			
1,2,4,5- tetrachlorobenzene	1,2,4,5-テトラクロロベンゼン	95-94-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	P															●			
Methane, tetrafluoro-	テトラフルオロメタン	75-73-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000	D/P	Mandatory																	
Thallium	タリウム	7440-28-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Toluene	トルエン	108-88-3	Reduced Observation	To be reduced: Parts, materials, sub-materials and packaging materials To be controlled: Auxiliary production materials	Relative to the weight of component parts and materials 1000	D										●								
o-Toluidine generating substances, selected	o-トルイジンを生じさせる物質, 抜粋			All applications and products	Relative to the weight of component parts and materials 15000	D																		
1,2-Di-o-tolylguanidine, DOTG	1,2-ジ-o-トルルグアニジン	97-39-2	Observation	All applications and products	Relative to the weight of component parts and materials 15000	D																		
2,4,6-Triallyloxy-1,3,5-triazine		101-37-1	Observation	All applications and products	Relative to the weight of component parts and materials 15000	D																		
Trichlorophenol and its salts, all members	トリクロロフェノールおよびその塩, すべて			All applications and products	Relative to the weight of component parts and materials 1000	D																		
2,4,5 -Trichlorophenol	2,4,5-トリクロロフェノール	95-95-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
2,4,6 -Trichlorophenol	2,4,6-トリクロロフェノール	88-06-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																		
Trichloropropane ( 1,2,3 - Trichloropropane )	トリクロロプロパン ( 1, 2, 3 - トリクロロプロパン )	96-18-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D												●				●		

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Trimethylphosphate	リン酸トリメチル	512-56-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Triorganotin compounds, all members	トリ有機すず化合物, すべて			All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P																	
(2-BIPHENYLOXY)TRIBUTYL TIN	(2-ビフェニルオキシ)トリブチルスズ	3644-37-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P				●						●							
(Chloroacetoxy)triphenylstannane	[(クロロアセチル)オキシ]トリフェニル]スズ	7094-94-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
[1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-Tributyl[[[1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthryl]carbonyl]oxy]stannane	トリブチルスズ=1,2,3,4,4a,4b,5,6,10,10a-デカヒドロ-7-イソプロピル-1,4a-ジメチル-1-フェナントレンカルボキシルト	26239-84-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
1,3,5-TRIS(TRIBUTYL TIN)-S-TRIAZINE-2,4,6-TRIONE	1,3,5-トリス(トリブチルスズ)-S-トリアジン-2,4,6-トリオン	752-58-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
2-BUTENOIC ACID, 4-OXO-4-[ (TRIBUTYLSTANNYL)OXY]-	4-オキシ-4-トリブチルスズニルオキシ-2-ブテン酸	4027-18-3	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Acetic acid, 2,2',2''-(methylstannylidene)tris(thio)tris-, trisooctyl ester	2,2',2''-[メチルスズニルジスチオ]トリ酢酸トリソオクチルエステル	54849-38-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
BIS(TRIBUTYL TIN) ITACONATE	ビストリブチルスズイタコン酸	25711-26-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Bis(tris(2-methyl-2-phenylpropyl)tin) oxide		13356-08-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Bis(tributyltin) maleate	ビストリブチルスズマレアート	14275-57-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
Bis(tributyltin)phthalate	ビストリブチルスズフタルート	4782-29-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
Bis(tributylstannyl)Fumarate	ビストリブチルスズフマラート	6454-35-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
Bromotrimethylstannane	トリメチルスズブロミド	1066-44-0	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
P-NITROPHENOXYTRIBUTYL TIN	p-ニトロフェノキシトリブチルスズ	3644-32-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Stannane, acetoxytriphenyl-	トリフェニルスズ=アセタート	900-95-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
Stannane, bromotriethyl-	トリエチルスズブロミド	2767-54-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Stannane, fluorotriphenyl-	トリフェニルスズ=フルオリド	379-52-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
Stannane, tributylfluoro-	トリブチルスズ=フルオリド	1983-10-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
Tributyl(lauroyloxy)stannane	トリブチルスズ=ラウレート	3090-36-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
Tributyl(neodecanoyloxy)stannane	トリブチルネオデカノイルスズ	28801-69-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyl(oleoyloxy)stannane	トリブチル[(1-オキシ-9Z-オクタデセニル)オキシ]スタンナン	3090-35-5	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin	トリブチルスズ	56573-85-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin (and salts and esters)	水素化トリ-n-ブチル錫	688-73-3	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin .alpha.-(2,4,5-trichlorophenoxy) propionate	α-(2,4,5-トリクロロフェノキシ)プロピオン酸トリブチルスズ	73940-89-3	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin .beta.-iodopropionate	β-ヨウ化プロピオン酸トリブチルスズ	73927-95-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
TRIBUTYL TIN 2-ETHYLHEXANOATE	2-エチルヘキサノ酸トリブチルスズ	5035-67-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin acetate	トリブチルスズ=アセタート	56-36-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
Tributyltin Acrylate	酢酸トリブチルスズ	13331-52-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin benzoate	トリブチルスズ ベンゾエート	4342-36-3	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin bromide	トリブチル錫ブロミド	1461-23-0	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin chloride	トリブチルスズクロリド	1461-22-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●							
TRIBUTYL TIN CHLOROACETATE	塩化酢酸トリブチルスズ	5847-52-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
Tributyltin cinnamate	トリブチル[(1-オキシ-3-フェニル-2-プロペニル)オキシ]スタンナン	27147-18-8	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							
TRIBUTYL TIN CYANATE	シアン酸トリブチルスズ	4027-17-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●							



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
TRIBUTYLTIN CYANIDE	トリブチルスズシアナミド	2179-92-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin dimethyldithiocarbamate	ジメチルジチオカルバミン酸トリブチルスズ	20369-83-5	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
TRIBUTYLTIN GAMMA-CHLOROBUTYRATE	γ-クロロブチレントリブチルスズ	33550-22-0	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin hydroxide	水酸化トリブチルスズ	1067-97-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin iodide	トリブチル錫ヨウ化物	7342-47-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin iodoacetate	ヨウ化酢酸トリブチルスズ	73927-91-0	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin isooctylthioacetate	イソオクチルチオ酢酸トリブチルスズ	73927-97-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
TRIBUTYLTIN ISOPROPYLSUCCINATE	イソプロピルスズクシン酸トリブチルスズ	53404-82-3	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin isothiocyanate	イソチオシアン酸トリブチルスズ	681-99-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin linoleate	リノール酸トリブチルスズ	24124-25-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin methacrylate	メタクリル酸トリブチルスズ	2155-70-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●									
TRIBUTYLTIN METHANESULPHONATE	メタンサルホン酸トリブチルスズ	13302-06-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin methoxide	トリブチルスズメトキシド	1067-52-3	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin monopropylene glycol maleate	プロピレングリコールトリブチルスズマレイン酸塩	53466-85-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
TRIBUTYLTIN NAPHTHENATE		36631-23-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P																			
Tributyltin nonanoate	ノナン酸トリブチルスズ	4027-14-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
TRIBUTYLTIN O-JODOBENZOATE	o-ヨウ化安息香酸トリブチルスズ	73927-93-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
TRIBUTYLTIN P-JODOBEMZOATE	p-ヨウ化安息香酸トリブチルスズ	73940-88-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tributyltin sulfamate	スルファミン酸トリブチルスズ	6517-25-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●									
TRIBUTYLTIN UNDECYLENATE	ウンデシレントリブチルスズ	69226-47-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
1-(Tricyclohexylstanny)-1H-1,2,4-triazole		41083-11-8	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Triethyltin acetate	酢酸トリエチルスズ	1907-13-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Triethyltin chloride	塩化トリエチルスズ	994-31-0	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Triethyltin hydroxide	水酸化トリエチルスズ	994-32-1	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Triethyltin iodide	ヨウ化トリエチルスズ	2943-86-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Triethyltin phenoxide	トリエチルスズフェノキシド	1529-30-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Trimethyltin acetate	酢酸トリメチルスズ	1118-14-5	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Trimethyltin azide	アジ化トリメチルスズ	1118-03-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Trimethyltin chloride	塩化トリメチルスズ	1066-45-1	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P				●						●									
Trimethyltin hydroxide	水酸化トリメチルスズ	56-24-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Trimethyltin iodide	ヨウ化トリメチルスズ	811-73-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Trimethyltin sulphate	硫酸トリメチルスズ	63869-87-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Trimethyltin thiocyanate	チオシアン酸トリメチルスズ	4638-25-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Tri-n-butyl tin salicylate	サリチル酸トリ-n-ブチルスズ	4342-30-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●									
Triphenylstannyl decanoate	トリフェニルスズタンニルデカノアート	47672-31-1	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P				●						●									
Triphenyl tin chloride	トリフェニルスズクロロド	639-58-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●									
Triphenyltin dimethyldithiocarbamate	トリフェニルスズ=N,N-ジメチルジチオカルバメート	1803-12-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory			●						●									

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Triphenyltin hydride	水素化トリフェニルスズ	892-20-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P										●								
Triphenyltin hydroxide	水酸化トリフェニルスズオキシド	76-87-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000	P	Mandatory				●						●							
Triphenyltin iodide	ヨウ化トリフェニルスズ	894-09-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripropyltin acetate	酢酸トリプロピルスズ	3267-78-5	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripropyltin bromide	臭化トリプロピルスズ	2767-61-5	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripropyltin chloride	クロロ(トリプロパン-1-イル)スタナン	2279-76-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripropyltin iodide	ヨウ化トリプロピルスズ	7342-45-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripropyltin iodoacetate	ヨウ化酢酸トリプロピルスズ	73927-92-1	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripropyltin laurate	乳酸トリプロピルスズ	57808-37-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripropyltin methacrylate	メタクリル酸トリプロピルスズ	4154-35-2	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tricyclohexyl Tin Compounds		—	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Triethyl Tin Compounds		—	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Trihexyl Tin Compounds		—	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Trimethyl Tin Compounds		—	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Trioctyl Tin Compounds		—	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripentyl Tin Compounds		—	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Triphenyl Tin Compounds		—	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tripropyl Tin Compounds		—	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Triphenyl tin oxide: Oxybis(triphenyl tin (IV))	トリフェニルスズイキド:オキシビス[トリフェニルスズ(IV)]	1262-21-1	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Trybutyle tin phosphate	トリブチルスズリン酸塩	13435-05-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Tribenzyltin hydroxide: Hydroxytris(phenylmethyl)stannane	トリベンジルスズハイドロオキシド:ヒドロキシトリス(フェニルメチル)スタナン:トリベンジルヒドロキシスタナン	15082-85-6	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Phthaloyloxybis(triphenyltin)	フタル酸ビス(トリフェニルスズ)	1954-36-5	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Triphenyltin laurate	トリフェニルスズラウレート	3644-29-9	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Tributyltin pentachlorophenolate	トリブチルスズペンタクロフェノレート	3644-38-0	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000					●							●							
Tributyltin terephthalate	ビス(トリブチルスズテレフタレート)	4756-53-0	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Tributyl(formyloxy)stannane	トリブチル(ホルミルオキシ)スズ	5847-51-8	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Tributyltin ethoxide	トリブチルスズエトキシド	682-00-8	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Tri-n-butyltin trifluoromethanesulfonate	トリフルオロメタンスルホン酸トリ-n-ブチルスズ	68725-14-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Triphenyltin benzoate	トリフェニルスズ安息香酸	910-06-5	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000												●							
Triphenylphosphate	リン酸トリフェニル	115-86-6	Observation	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D																		
Tris(1,3-dichloro-2-propyl)phosphate	リン酸トリス(1,3-ジクロロ-2-プロピル)	13674-87-8	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D	Optional																	
Tris-(1-aziridinyl) phosphine oxide	トリス-(1-アジリジニル)ホスフィンオキシド	545-55-1	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tris(2,3-dibromopropyl)phosphate (TRIS)	リン酸トリス(2,3-ジブロモプロピル) (TRIS)	126-72-7	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	P											●							
Tris(2-chloroethyl)phosphate	リン酸トリス(2-クロロエチル)	115-96-8	Prohibited	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D/P	Mandatory										●	●				●		
tris(2-ethylhexyl)-benzene-1,2,4-tricarboxylate		3319-31-1	Observation	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D																		
Tris(methylphenyl) phosphate		1330-78-5	Observation	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D																		
Tris(nonylphenyl) phosphite (TNPP)		26523-78-4	Observation	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D																		
Trixylyl phosphate	リン酸トリス(ジメチルフェニル)	25155-23-1	Observation	All applications and products	Relative to the weight of component parts and materials Tin concentration 1000	D	Mandatory											●				●		



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)		4259-15-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000	D																	
Vinyl chloride	塩化ビニル	75-01-4	Prohibited	All applications and products	Relative to the weight of component parts and materials Vinyl chloride monomer concentration 5										●	●					●		
4-chloro-o-toluidine	p-クロロ-o-トルイジン	95-69-2	Prohibited Reduced	Note 1) To be prohibited: Substances in contact with the human body continuously for a long period of time Note 2) To be reduced: Substances not in contact with the human body continuously for a long period of time	Relative to the weight of component parts and materials 30		Mandatory															●	●
o-aminoazotoluene	o-アミノアソトルエン	97-56-3	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory											●				●	
5-nitro-o-toluidine	2-メチル-5-ニトロアニリン	99-55-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory																
4-chloroaniline	p-クロロアニリン	106-47-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory															●	
4-methoxy-m-phenylenediamine	2,4-ジアミノアニソール	615-05-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory															●	
4,4'-methylenedi-o-toluidine	4,4'-ジアミノ-3,3'-ジメチルジフェニルメタン	838-88-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory											●				●	
6-methoxy-m-toluidine		120-71-8	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory											●				●	
4,4'-methylene-bis(2-chloroaniline)		101-14-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory										●	●				●	
4,4'-oxydianiline	4,4'-ジアミノビフェニルエーテル	101-80-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory											●				●	
4,4'-thiodianiline	4,4'-ジアミノジフェニルスルフィド	139-65-1	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory															●	
o-toluidine	o-トルイジン	95-53-4	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory											●				●	
4-methyl-m-phenylenediamine	2,4-ジアミノトルエン	95-80-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory											●				●	
2,4,5-trimethylaniline	2,4,5-トリメチルアニリン	137-17-7	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory															●	
o-anisidine	o-アニシジン	90-04-0	Prohibited Reduced	Note 1 Note 2	Relative to the weight of component parts and materials 30		Mandatory											●				●	
4-amino azobenzene	4-アミノアゾベンゼン	60-09-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●				●	
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Optional																
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Optional																
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Optional																
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls in combination with antimony compounds]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Optional																
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Optional																
Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Optional																
Poly(2,6-dibromo-phenylene oxide)	ポリ(2,6-ジブロモフェニレンオキシド)	69882-11-7	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Tetra-decabromo-diphenoxy-benzene		58965-66-5	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
1,2-Bis(2,4,6-tribromo-phenoxy) ethane		37853-59-1	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA, unspecified		30496-13-0	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA-epichlorhydrin oligomer	TBBA (エピクロロヒドリンオリゴマー)	40039-93-8	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA-TBBA-diglycidyl-ether oligomer	TBBA (TBBA-ジグリシジルエーテルオリゴマー)	70682-74-5	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA carbonate oligomer	TBBA (炭酸オリゴマー)	28906-13-0	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA carbonate oligomer, phenoxy end capped	炭酸オリゴマー、フェノキシエンドキャップ	94334-64-2	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated		71342-77-3	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA-bisphenol A-phosgene polymer		32844-27-2	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Brominated epoxy resin end-capped with tribromophenol	臭素化エポキシレジン、トリブロモフェノールエンドキャップ	139638-58-7	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Brominated epoxy resin end-capped with tribromophenol	臭素化エポキシレジン、トリブロモフェノールエンドキャップ	135229-48-0	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA-(2,3-dibromo-propyl-ether)		21850-44-2	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA bis-(2-hydroxy-ethyl-ether)		4182-45-2	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA-bis-(allyl-ether)		25327-89-3	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBA-dimethyl-ether		37853-61-5	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tetrabromo-bisphenol S		39635-79-5	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBBS-bis-(2,3-dibromo-propyl-ether)	TBBSビス-(2,3-ジブロモプロピルエーテル)	42757-55-1	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
2,4-Dibromo-phenol		615-58-7	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
2,4,6-tribromo-phenol		118-79-6	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Pentabromo-phenol		608-71-9	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
2,4,6-Tribromo-phenyl-allyl-ether		3278-89-5	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tribromo-phenyl-allyl-ether, unspecified	2, 4, 6-トリブロモフェニルアリルエーテル	26762-91-4	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Bis(methyl)tetrabromo-phthalate	テトラブロモフタル酸ジメチル	55481-60-2	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Bis(2-ethylhexyl)tetrabromo-phthalate		26040-51-7	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP		20566-35-2	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
TBPA, glycol-and propylene-oxide esters		75790-69-1	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
N,N'-Ethylene -bis-(tetrabromo-phthalimide)		32588-76-4	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	エチレンビス(5,6-ジブロモノルボルナン-2,3-ジカルボキシミド)	52907-07-0	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
2,3-Dibromo-2-butene-1,4-diol		3234-02-4	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Dibromo-neopentyl-glycol		3296-90-0	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	●
Dibromo-propanol		96-13-9	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	●
Tribromo-neopentyl-alcohol		36483-57-5	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Poly tribromo-styrene	ポリトリブロモスチレン	57137-10-7	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tribromo-styrene	α, β, β'-トリブロモスチレン	61368-34-1	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Dibromo-styrene grafted PP	ジブロモ-スチレン, PP グラフティド	171091-06-8	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Poly-dibromo-styrene	ポリジブロモスチレン	31780-26-4	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Bromo-/Chloro-paraffins		68955-41-9	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Bromo-/Chloro-alpha-olefin	ブロモ/クロロアルファオレフィン	82600-56-4	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Vinylbromide		593-60-2	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional															●		
Tris-(2,3-dibromo-propyl)-isocyanurate		52434-90-9	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tris(2,4-Dibromo-phenyl) phosphate	トリス(2,4-ジブロモフェニル)フォスフェート	49690-63-3	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tris(tribromo-neopentyl) phosphate		19186-97-1	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Chlorinated and brominated phosphate ester	塩素化、臭素化リン酸エステル	125997-20-8	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Pentabromo-toluene		87-83-2	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Pentabromo-benzyl bromide		38521-51-6	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
1,3-Butadiene homopolymer,brominated		68441-46-3	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Pentabromo-benzyl-acrylate, monomer		59447-55-1	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Pentabromo-benzyl-acrylate, polymer		59447-57-3	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tribromo-bisphenyl-maleinimide	トリブロモビスフェニルマレインイミド	59789-51-4	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	オクタブロモ-1,1,3-トリメチル-1-フェニルインダン(FR-1808)	155613-93-7	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Other Brominated Flame Retardants		—	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tetrabromo-cyclo-octane		31454-48-5	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
1,2-Dibromo-4-(1,2 dibromo-ethyl)-cyclo-hexane		3322-93-8	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tetrabromophthalic acid Na salt	TBPA Na ソルト	25357-79-3	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Tetrabromo phthalic anhydride	テトラブロモフタル酸無水物	632-79-1	Observation	All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900		Optional																	
Cadmium sulfate	硫酸カドミウム無水物	31119-53-6	Prohibited Reduced	Note 3) To be prohibited: Applications subject to the ELV and RoHS Directives (Electrical contacts outside the scope of applications are substances to be reduced) Note 4) To be reduced: Applications not subject to the ELV and RoHS Directives (Including electrical contacts outside the scope of the ELV and RoHS Directives)	Intentional addition Impurity: Cadmium concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 100 [Analysis limit 75] Resins, rubber, paints, inks and pigments 5 Total of packaging materials and ELV4 substances 100		Mandatory	●	●													●		
Dodecafluoropentane	ドデカフルオロペンタン	678-26-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Tetradecafluorohexane	テトラデカフルオロヘキサタン	355-42-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Octafluorocyclobutane		115-25-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1,2,2,3,3-Hexafluoro-propane		677-56-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,2,2,3-Pentafluoropropane		679-86-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Lead hydroxidecarbonate		1344-36-1	Prohibited Reduced	To be prohibited: Note 11 To be reduced: Note 12, Note 13, Note 14, Note 15, Note 16, Note 17	Intentional addition Impurity: Lead concentration in homogeneous materials Parts, materials, sub-materials and auxiliary production materials 1000 [Analysis limit 500] Resins, rubber, paints, inks and pigments 100 Total of packaging materials and ELV4 substances 100 Exemptions: Permitted concentration for intentional use Lead-free cutting steel 3500 Aluminium alloy 4000 Copper alloy 40000			●	●													●		
1,1,1,2,2,3,3-Heptachloro-2-fluoropropane		422-81-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,2-Trichloropentafluoropropane (CFC-215bb)	1,1,2-トリクロロペンタフルオロプロパン(CFC-215bb)	—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,3-Trichloropentafluoropropane(CFC-215cb)		—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1-Trichloropentafluoropropane (CFC-215ca)	1,1,1-トリクロロペンタフルオロプロパン(CFC-215ca)	—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Bromoethane	ブロモエタン	74-96-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classificatio n	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~ 16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
1-Bromopropane	1-ブロモプロパン	106-94-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory											●				●		
Trifluoriodomethane	トリフルオロヨードメタン	2314-97-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Chloromethane	クロロメタン	74-87-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Tribromodifluoroethane(HBFC-122 B3)	トリブロモジフルオロエタン(HBFC-122 B3)	—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Bromotetrafluoroethane	ブロモテトラフルオロエタン	124-72-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Tribromofluoroethane		—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Hexabromofluoropropane(HBFC-221 B6)	ヘキサブロモフルオロプロパン(HBFC-221 B6)	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																	
Pentabromodifluoropropane(HBFC-222 B5)	ペンタブロモジフルオロプロパン(HBFC-222 B5)	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																	
Tetrabromotrifluoropropane(HBFC-223 B4)	テトラブロモトリフルオロプロパン(HBFC-223 B4)	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																	
Dibromopentafluoropropane		431-78-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
HBFC-231 B5	ペンタブロモフルオロプロパン(HBFC-231 B5)	—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																	
Tribromodifluoropropane	トリブロモジフルオロプロパン	70192-80-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Bromotrifluoropropane(HBFC-253 B1)	ブロモトリフルオロプロパン	421-46-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Bromodifluoropropane(HBFC-262 B1)		—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1-Trichloro-2,2-difluoroethane		354-12-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1-Dichloro-1,2,2-trifluoroethane(HCFC-123a)		90454-18-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,2-Trichloro-2-fluoroethane	1,1,2-トリクロロ-2-フルオロエタン	359-28-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1-Chloro-1,2,2-trifluoroethane		431-07-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
2-Chloro-1,1-Difluoroethane		338-65-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1-Chloro-2-fluoroethane(HCFC-151)		762-50-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1-Chloro-1-fluoroethane		1615-75-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1,2,2,3-Hexachloro-3-fluoropropane		422-26-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1,3,3-pentachloro-2,2-difluoropropane(HCFC-222ca)		422-49-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,2,2,3,3-pentachloro-1,1-difluoropropane		422-30-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,3,3-Tetrachloro-1,2,2-trifluoropropane(HCFC-223ca)		422-52-6	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1,3-Tetrachloro-2,2,3-trifluoropropane		422-50-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane		—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,3,3-Trichloro-1,1,2,2-tetrafluoropropane		422-54-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,3-Trichloro-1,2,2,3-tetrafluoropropane		422-53-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1-Trichloro-2,2,3,3-tetrafluoropropane(HCFC-224cc)		422-51-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Chlorohexafluoropropane(HCFC-226)	クロロヘキサフルオロプロパン	134308-72-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
2-Chloro-1,1,1,3,3,3-hexafluoro-propane		431-87-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1,2,3-pentachloro-2-fluoro-propane	ペンタクロロフルオロプロパン	421-94-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,1,3-Tetrachloro-3,3-difluoropropane	テトラクロロシフルオロプロパン	460-89-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,2-Dichloro-1,2,3,3-tetrafluoropropane		425-94-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,2,3-Tetrachloro-1-fluoropropane	テトラクロロフルオロプロパン	666-27-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,3,3,Trichloro-1,1-difluoropropane	トリクロロシフルオロプロパン	460-63-9	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1-Chloro-1,1,2,2-tetrafluoropropane	クロロテトラフルオロプロパン	421-75-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,1,2-Trichloro-1-fluoropropane		421-41-0	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,3-Dichloro-1,1-difluoropropane		819-00-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1,2-Dichloro-2-fluoro-propane	ジクロロフルオロプロパン	420-97-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1-Chloro-2,2-difluoropropane	クロロシフルオロプロパン	420-99-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1-Chloro-1,1-difluoropropane	クロロシフルオロプロパン	421-02-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
1-Chloro-1-fluoropropane	クロロフルオロプロパン	430-55-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials 1000		Mandatory																	
Diisodicycl phthalate (DIDP)	ジイソデシルフタレート	68515-49-1	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000		Mandatory																	
2-Bromobiphenyl	2-ブロモビフェニル	2052-07-5	Prohibited Reduced	Note 20) To be prohibited: Applications subject to the RoHS Directives Note 21) To be reduced: Applications not subject to the RoHS Directives	Bromine concentration in homogeneous materials 1000		Mandatory																	
3-Bromobiphenyl	3-ブロモビフェニル	2113-57-7	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000		Mandatory																	
4-Bromobiphenyl	4-ブロモビフェニル	92-66-0	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000		Mandatory																	
Pentabiphenyl	ペンタブロモビフェニル	56307-79-0	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000		Mandatory																	
Heptabromobiphenyl	ヘプタブロモビフェニル	35194-78-6	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000		Mandatory																	
Nonabiphenyl		27753-52-2	Prohibited Reduced	Note 20 Note 21	Bromine concentration in homogeneous materials 1000		Mandatory																	
Radon	ラドン	10043-92-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited		Mandatory																	
Americium-241	アメリシウム-241	14596-10-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited		Mandatory																	
Cesium-137	セシウム-137	10045-97-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited		Mandatory																	
Strontium-90	ストロンチウム-90	10098-97-2	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited		Mandatory																	
Other radioactive substances		—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Use at background level or higher is prohibited		Mandatory																	
Aluminosilicate, Refractory Ceramic Fibres	アルミノシリケート、耐熱性セラミック繊維 Al2O3: 43.5-47%, SiO2: 49.5-53.5%または Al2O3: 45.5-50.5%, SiO2: 48.5-54%または 主成分: Al2O3, Al2O3添加剤: (Na2O+K2O+CaO+MgO+BaO) 18%以下ジルコニアアル ミノシリケート、耐熱性セラミック繊維Al2O3: 35-36%, SiO2: 47.5-50%, ZrO2: 15-17%ま たは主成分: Al2O3, Al2O3, ZrO2添加剤: (Na2O+K2O+CaO+MgO+BaO) 18%以下	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																	
Alkanes, C10-12, chloro	アルカン、C10-12、クロロ	108171-26-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Other Short Chain Chlorinated Paraffins		—	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																
Triphenyltin fattyacid(9-11)salt	トリフェニルスズ脂肪酸塩(C=9~11)	18380-71-7	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000		Mandatory			●						●							
Triphenyltin fattyacid(9-11)salt	トリフェニルスズ脂肪酸塩(C=9~11)	18380-72-8	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000		Mandatory			●						●							
Triphenyltin fattyacid(9-11)salt	トリフェニルスズ脂肪酸塩(C=9~11)	47672-31-1	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000		Mandatory			●						●							
Triphenyltin fattyacid(9-11)salt	トリフェニルスズ脂肪酸塩(C=9~11)	94850-90-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000		Mandatory			●						●							
Bis(tributyltin)2,3-dibromosuccinate	ビス(トリブチルスズ)=2,3-ジブロモスクシナート	31732-71-5	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000		Mandatory			●						●							
Copolymer of alkyl(c=8) acrylate,methyl methacrylate and tributyltin methacrylate	アルキル=アクリレート、メチル=メタクリレート、およびトリブチルスズ=メタクリレートの共重合物(アルキル:C=8)	67772-01-4	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000		Mandatory			●						●							
Tributyltinchloride	トリブチルスズクロリド	7342-38-3	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000		Mandatory									●							
Other tri-substituted organostannic compounds		—	Prohibited	All applications and products	Intentional addition Impurity: Relative to the weight of component parts and materials Tin concentration 1000		Mandatory									●							
Bis(2-methoxyethyl) ether	ジエチレングリコールジメチルエーテル	111-96-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory										●	●				●	
Chloro phosphate, selected	塩素化リン酸エステル類、抜粋			All applications and products	Relative to the weight of laminated sheets Total chlorine concentration 1000																		
Tetrakis(2-chloroethyl)dichloroisopentylidiphosphate	[2,2-ビス(クロロメチル)-1,3-プロパンジイル]ビスオキシビスホスホン酸テトラキス[2-クロロエチル]	38051-10-4	Observation	All applications and products	Relative to the weight of laminated sheets Total chlorine concentration 1000		Optional																
Tris(1-chloro-2-propyl)phosphate	リン酸トリス(1-メチル-2-クロロエチル)	13674-84-5	Prohibited	All applications and products	Relative to the weight of laminated sheets Total chlorine concentration 1000		Optional																
Tris(2,3-dichloro-1-propyl)phosphate	リン酸2,2-ビス(プロモメチル)-3-クロロプロピル=ビス[2-クロロ-1-(クロロメチル)エチル]	66108-37-0	Observation	All applications and products	Relative to the weight of laminated sheets Total chlorine concentration 1000		Optional																
Other Chlorinated Flame Retardants		—	Observation	All applications and products	Relative to the weight of laminated sheets Total chlorine concentration 1000		Optional																
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	トリエチレングリコールジメチルエーテル	112-49-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●				●	
Pyrochlore, antimony lead yellow	C.I. ピグメントイエロー41	8012-00-8	Reduced	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory	●	●														
1,2-Diethoxyethane	ポリオキシアルキレン(C=2~3)ジアルキル(またはアルキレン)(C=1~5)エーテル(n=1~150)	629-14-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●				●	
Silicic acid (H2Si2O5), barium salt (1:1), lead-doped	ケイ酸バリウム	68784-75-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●					
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	1,2-ベンゼンジカルボン酸、ジペンチルエステル、分岐および直鎖	84777-06-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●				●	
N-pentyl-isopentylphthalate	n-ペンチル-イソペンチルフタレート	776297-69-9	Reduced Observation	To be reduced: Parts, materials and sub-materials To be controlled: Auxiliary production materials and packaging materials	Relative to the weight of component parts and materials 1000		Mandatory											●				●	
Hexahydromethylphthalic anhydride	メチルヘキサヒドロ無水フタル酸	25550-51-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●					
Hexahydro-4-methylphthalic anhydride	メチルヘキサヒドロ無水フタル酸	19438-60-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●					
Hexahydro-1-methylphthalic anhydride	メチルヘキサヒドロ無水フタル酸	48122-14-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●					
Hexahydro-3-methylphthalic anhydride	メチルヘキサヒドロ無水フタル酸	57110-29-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●					
3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol,26-(4-nonylphenoxy)-		14409-72-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	1,2-ベンゼンジカルボン酸、ジヘキシルエステル、分岐および直鎖	68515-50-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory											●				●	
Antimony oxide (Sb2O3), mixed with arsenic oxide (As2O3)	酸化アンチモン(Sb2O3)と酸化ヒ素(As2O3)の混合物	68951-38-2	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500																		
Arsenate, dimethyl, sodium	ジメチルヒ酸ナトリウム	6131-99-3	Reduced	All applications and products	Relative to the weight of component parts and materials Other than metal and alloy: 100 Metal and alloy: 500																		
N,N'-diacetylbenzidine	N,N'-ジアセチルベンジジン	613-35-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●	
Chloromethyl methyl ether (CMME)	クロロメチルメチルエーテル (CMME)	107-30-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000																●	●	
Cyclohexane	シクロヘキサン	110-82-7	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																	●	
Dichloropropanol (1,3-Dichloro-2-propanol)	ジクロロプロパノール (1,3-ジクロロ-2-プロパノール)	96-23-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●	●
Hexachlorocyclohexane	ヘキサクロロシクロヘキサン	319-84-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●													



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Hexachlorocyclohexane	ヘキサクロロシクロヘキサン	319-85-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●												●	
Hydrazine monohydrate	ヒドラジン水和物	7803-57-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●					
Phenylmercuric octanoate	オクタノ酸フェニル水銀	13864-38-5	Prohibited	All applications and products	Intentional addition Impurity: Mercury concentration in homogeneous materials 1000 [Analysis limit 500]			●	●							●							
Methylacrylamidomethoxy-acetate	メチルアクリルアミドメトキシアセテート	77402-03-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●	
Citric acid, nickel salt	2-ヒドロキシ-1,2,3-プロパントリカルボン酸、ニッケル	22605-92-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Dinickel hexacyanoferrate	ヘキサシクロ鉄ニッケル	14874-78-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Ethanedioic acid, nickel(2+) salt (1:1)	シュウ酸ニッケル(Ⅱ)	547-67-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Formic acid, copper nickel salt	ギ酸銅ニッケル塩	68134-59-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Formic acid, nickel(2+) salt	ギ酸ニッケル(Ⅱ)	3349-06-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Molybdenum nickel oxide (MoNiO4)	モリブデン酸ニッケル(Ⅱ)	14177-55-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel formate	ギ酸ニッケル	15843-02-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel tungsten oxide (NiWO4)	酸化ニッケルタングステン	14177-51-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel(2+) hydrogen citrate	ニッケル(Ⅱ)水素クエン酸	18721-51-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel(2+) propionate	プロピオン酸ニッケル(Ⅱ)	3349-08-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel(Ⅱ) fluosilicate	ケイフッ化ニッケル(Ⅱ)六水和物	26043-11-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Millerite		1314-04-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●	
Heazlewoodite		12035-71-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●	
Tetrahydroxytrinickel		12607-70-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel matte		69012-50-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Slimes and sludges,copper electrolytic refining,decopperised, nickel sulfate		92129-57-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel dilactate		16039-61-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel potassium fluoride		11132-10-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Diammonium nickel hexacyanoferrate		74195-78-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Silicic acid, nickel salt		37321-15-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Trihydrogen hydroxybis[orthosilicato(4-)] trinickelate(3-)		12519-85-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Trinickel tetrasulfide		12137-12-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Trinickel bis(arsenite)		74646-29-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Cobalt nickel gray periclase; C.I. Pigment Black 25; C.I. 77332		68186-89-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Cobalt nickel oxide		12737-30-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Molybdenum nickel hydroxide oxide phosphate		68130-36-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Nickel boron phosphide		65229-23-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Olivine, nickel green		68515-84-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Bunsenite		34492-97-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
Cobalt lithium nickel oxide		EC442-750-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●						●	
4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	4-ノニルフェノール、分岐および直鎖	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●					
4-Nonylphenol, branched and linear, ethoxylated	4-ノニルフェノール、分岐及び直鎖のエトキシレート	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●					

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
N,N'-ditolyl-p-phenylenediamine	N, N' -ジトリル-p-フェニレンジアミン	27417-40-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
N,N'-dixylyl-p-phenylenediamine	N-トリル-N' -キシリル-p-フェニレンジアミン	28726-30-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
N-tolyl-N'-xylyl-p-phenylenediamine	N, N' -ジキシリル-p-フェニレンジアミン	70290-05-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
Polychlorinated naphthalene	trans-4-プロピルシクロヘキサンカルボン酸	38289-27-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000																			
Brominated Flame Retardants	臭素系難燃剤 (PBB類、PBDE類、HBCDD除く)			All applications and products	Relative to the weight of laminated sheets Total bromine concentration 900																			
Agricultural chemicals, selected	農薬類、抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Aldrin	アルドリン	309-00-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
Dieldrin	ディルドリン	60-57-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
Endrin	エンドリン	72-20-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
Dichlorodiphenyltrichloroethane, which has the molecular formula C14H9Cl5(DDT)	DDT	50-29-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●									●	●	●			
Chlordane	クオルデン	57-74-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
Toxaphene	トキサフェン	8001-35-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
Dicofol	ケルセン又はジコホル	115-32-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●									●					
Chlordecone	クオルデコン	143-50-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
Endosulfan	エンドスルファン	115-29-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●									●	●				
Endosulfan	エンドスルファン	959-98-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●									●	●				
Endosulfan	エンドスルファン	33213-65-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●									●	●				
Octamethyl pyrophosphoramide	オクタメチルピロホスホルアミド (シュラーゲン)	152-16-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000									●										
Diethyl-paranitrophenyl-thiophosphate (Parathion)	ジエチルパラニトロフェニルチオホスフェイト (パラチオン)	56-38-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000									●										
Dimethylethyl mercaptoethyl triphosphate	ジメチルエチルメルカプトエチルチオホスフェイト (メチルジメトン)	8022-00-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000									●										
Dimethyl-(diethylamido-1- chlorocrotonyl)-phosphate	ジメチル-(ジエチルアミド-1-クロロクロトンニル)-ホスフェイト (ホスファミド)	13171-21-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000									●										
Dimethylparanitrophenyl thiophosphate (Methyl Parathion)	ジメチルパラニトロフェニルチオホスフェイト (メチルパラチオン)	298-00-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000									●										
Tetraethyl pyrophosphate	テトラエチルピロホスフェイト (TEPP)	107-49-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000									●										
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	シマジン	122-34-9	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000										●									
Heptachlor	ヘプタクロル	76-44-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000					●														
Nitrofen	ニトロフェン	1836-75-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●				●	
Pentachlorobenzenethiol	ペンタクロロベンゼンチオール	133-49-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000														●					
Monofluoroacetate compounds, selected	モノフルオール酢酸類、抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Monofluoroacetate	モノフルオール酢酸	144-49-0	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000									●										
Monofluoroacetamide	モノフルオール酢酸アミド	640-19-7	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000									●										
Chlorinated hydrocarbons, selected	塩素化炭化水素、抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
1,2-dichloroethane	1,2-ジクロロエタン	107-06-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000										●		●	●					●	
cis-1,2 Dichloroethylene	シス-1,2ジクロロエチレン	156-59-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000										●									
trans-1,2 Dichloroethylene	トランス-1,2ジクロロエチレン	156-60-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000										●									
1,3 Dichloropropene	1,3-ジクロロプロペン	542-75-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000										●									
Thiobencarb	ジエチルチオカルバミン酸S-(4-クロロベンジル)	28249-77-6	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000										●									
1,4-Dioxane	1,4-ジオキサン	123-91-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000										●									
2-Nitrobenzaldehyde	o-ニトロベンズアルデヒド	552-89-6	Reduced	All applications and products	Relative to the weight of component parts and materials 1000											●								



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	1,1-ジクロロエチレン	—	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Quillaja saponaria, ext.	キラヤ抽出物	68990-67-0	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Ammonium salts, selected	アンモニウム塩, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Ammonium sulfide	硫化アンモニウム	12135-76-1	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Ammonium hydrogen sulfide	硫化水素アンモニウム	12124-99-1	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Ammonium polysulfide	多硫化アンモニウム	9080-17-5	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Ammonium polysulfide	多硫化アンモニウム	12259-92-6	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Bromoacetates, selected	ブロモ酢酸類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Methyl bromoacetate	ブロモ酢酸メチル	96-32-2	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Ethyl bromoacetate	ブロモ酢酸エチル	105-36-2	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Propyl bromoacetate	ブロモ酢酸プロピル	35223-80-4	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Buthyl bromoacetate	ブロモ酢酸ブチル	18991-98-5	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Buthyl bromoacetate	ブロモ酢酸ブチル	5292-43-3	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Monomethyl dichloro diphenyl methane Uglich 121(商品名)	1,1-ビス(4-クロロフェニル)エタンモノメチル-ジクロロジフェニルメタン	3547-04-4	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000																			
Anthracene oils	アントラセン油類			All applications and products	Relative to the weight of component parts and materials 1000																			
Anthracene oil	アントラセン油	90640-80-5	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Anthracene oil, anthracene paste, distn. lights	アントラセン油、アントラセンペースト、軽質留分	91995-17-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Anthracene oil, anthracene paste, anthracene fraction	アントラセン油、アントラセンペースト、アントラセン留分	91995-15-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Anthracene oil, anthracene-low	アントラセン油、アントラセン低含有分	90640-82-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Anthracene oil, anthracene paste	アントラセン油、アントラセンペースト	90640-81-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Creosotes, selected	クレオソート類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Creosote	クレオソート	61789-28-4	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Creosote	クレオソート アセナフテン留分	90640-84-9	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Creosote	クレオソート 木質	8021-39-4	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Coal tar, selected	コールタール類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Naphthalene oil	コールタール ナフタレン油	84650-04-4	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Anthracene oil	コールタール 高温留分	65996-91-0	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Tar acids	タール酸	65996-85-2	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Coal tar	タール油 アルカリ性	122384-78-5	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
	コールタール	8007-45-2	Reduced	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (Coal tar) , selected	蒸留物(コールタール類), 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Residues (Coal tar) , Pitch Distn.		92061-94-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (Coal tar) , Heavy oils		90640-86-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (Coal tar) , Heavy oils, Pyrene fraction		91995-42-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Distillates (Coal tar) , Pitch, Pyrene fraction		91995-52-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
	クレオソートオイル, high-boiling distillate	70321-79-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
	クレオソートオイル, low-boiling distillate	70321-80-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
	クレオソートオイル, acenaphthene fraction, acenaphthene-free	90640-85-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)
Coal tar pitch, high temperature	コールタールピッチ、高温留分	65996-93-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●	●		●		
1,2,4-trichlorobenzene	1,2,4-トリクロロベンゼン	120-82-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●							
trichlorobenzene all isomers		12002-48-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●							
2-(2-butoxyethoxy)Ethanol (DEGBE)	2-2-ブトキシエトキシエタノール	112-34-5	Reduced	All applications and products	Relative to the weight of component parts and materials 1000											●							
Diisocyanate, selected	イソシアネート類、抜粋			All applications and products	Relative to the weight of component parts and materials 1000																		
Diphenylmethane Diisocyanate (MDI)	メチレンジフェニルジイソシアネート	26447-40-5	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●							
4,4-Diphenylmethane Diisocyanate	4,4-メチレンジフェニルジイソシアネート	101-68-8	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●							
2,4-Diphenylmethane Diisocyanate	2,4-メチレンジフェニルジイソシアネート	5873-54-1	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●							
2,2-Diphenylmethane Diisocyanate	2,2-メチレンジフェニルジイソシアネート	2536-05-2	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000											●							
Ammonium Nitrate in Fertilizer	硝酸アンモニウム	6484-52-2	Reduced	All applications and products	Relative to the weight of component parts and materials 1000							●					●		●				
2,4-Dinitrotoluene	2,4-ジニトロトルエン	121-14-2	Reduced	All applications and products	Relative to the weight of component parts and materials 1000												●	●			●		
Cyclododeca1.5.9-trien	シクロドデカ-1.5.9-トリエン	676-22-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Cyclododeca1.5.9-trien	シクロドデカ-1.5.9-トリエン	706-31-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Cyclododeca1.5.9-trien	シクロドデカ-1.5.9-トリエン	2765-29-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Cyclododeca1.5.9-trien	シクロドデカ-1.5.9-トリエン	4736-48-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Cyclododeca1.5.9-trien	シクロドデカ-1.5.9-トリエン	4904-61-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Cyclododecane	シクロドデカン	294-62-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●							●				
1,1-Bis(tert-butylidioxy)-3,3,5-trimethylcyclohexane	1,1-ビス(tert-ブチルジオキシ)-3,3,5-トリメチルシクロヘキササン	6731-36-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Tetraphenyltin	テトラフェニルスズ	595-90-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
1,3,5-tribromo-2-(2,3-dibromo-2-methylpropoxy)-benzene	1,3,5-トリブロモ-2-(2,3-ジブロモ-2-メチルプロポキシ)ベンゼン	36065-30-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Phosphonothioic acid, phenyl-, O-(2,4-dichlorophenyl) O-ethyl ester	O-(2,4-ジクロロフェニル)=O-エチルフェニルホスホノチオアート	3792-59-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
1,3,5-Tri-tert-butylbenzene	1,3,5-トリ-tert-ブチルベンゼン	1460-02-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Dipentene dimer or its hydrogen additives	ジペンテンダイマー又はその水素添加物	57912-86-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Dipentene dimer or its hydrogen additives	ジペンテンダイマー又はその水素添加物	71911-41-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Dipentene dimer or its hydrogen additives	ジペンテンダイマー又はその水素添加物	84304-87-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
2-isopropyldecahydronaphthalene or 3-isopropyldecahydronaphthalene (1-isopropyldecahydronaphthalene)	2-イソプロピルビシクロ(4,4,0)デカン又は3-イソプロピルビシクロ(4,4,0)デカン	1010-74-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
2-isopropyldecahydronaphthalene or 3-isopropyldecahydronaphthalene (1-isopropyldecahydronaphthalene)	2-イソプロピルビシクロ(4,4,0)デカン又は3-イソプロピルビシクロ(4,4,0)デカン	861642-00-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
2,6-di-tert-butyl-4-phenylphenol	2,6-ジ-tert-ブチル-4-フェニルフェノール	2668-47-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	24157-79-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	24157-81-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	24192-58-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	27351-96-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	38640-62-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	40458-98-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	51113-41-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	57122-16-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											
Diisopropyl-naphthalene	ジイソプロピルナフタレン	94133-79-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●											



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Diisopropyl-naphthalene	ジイソプロピルナフタレン	94133-80-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Diisopropyl-naphthalene	ジイソプロピルナフタレン	94133-81-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Trisopropyl-naphthalene	トリイソプロピルナフタレン	35860-37-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Diethylbiphenyl	ジエチルビフェニル	13049-35-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Diethylbiphenyl	ジエチルビフェニル	13049-36-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Diethylbiphenyl	ジエチルビフェニル	13049-37-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Diethylbiphenyl	ジエチルビフェニル	13049-38-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Diethylbiphenyl	ジエチルビフェニル	13049-39-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Diethylbiphenyl	ジエチルビフェニル	13049-40-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Diethylbiphenyl	ジエチルビフェニル	28575-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Hydrogenated terphenyls	水素化テルフェニル	1087-02-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Hydrogenated terphenyls	水素化テルフェニル	20273-27-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Hydrogenated terphenyls	水素化テルフェニル	27985-87-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Hydrogenated terphenyls	水素化テルフェニル	35860-22-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Hydrogenated terphenyls	水素化テルフェニル	61788-32-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Dibenzyltoluene	ジベンジルトルエン	26898-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Dibenzyltoluene	ジベンジルトルエン	29589-57-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Dibenzyltoluene	ジベンジルトルエン	53585-53-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Triethylbiphenyl	トリエチルビフェニル	42343-17-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Triethylbiphenyl	トリエチルビフェニル	76804-33-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Triethylbiphenyl	トリエチルビフェニル	152463-74-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
2,4-Di-tert-butyl-6-[(2-nitrophenyl)diazanyl]phenol	2,4-ジ-tert-ブチル-6-[(2-ニトロフェニル)ジアゼニル]フェノール	52184-14-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Perfluoro(1,2-dimethylcyclohexane)	ペルフルオロ(1,2-ジメチルシクロヘキサン)	306-98-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Perfluorodecanoic acids	ペルフルオロデカン酸類			All applications and products	Relative to the weight of component parts and materials 1000																			
Perfluorodecanoic acid	ペルフルオロデカン酸	307-55-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●						●						
Perfluorotridecanoic acid	ペルフルオロトリデカン酸	72629-94-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●						●						
Perfluorotetradecanoic acid	ペルフルオロテトラデカン酸	376-06-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●						●						
Perfluoropentadecanoic acid	ペルフルオロペンタデカン酸	141074-63-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Perfluorohexadecanoic acid	ペルフルオロヘキサデカン酸	67905-19-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Perfluoroheptane	ペルフルオロヘプタン	335-57-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Perfluorooctane	ペルフルオロオクタン	307-34-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
2,2,3,3,4,4,5-Heptafluoro-5-(perfluorobutyl)oxolane or 2,2,3,3,4,4,5-Heptafluoro-4-(perfluorobutyl)oxolane	2,2,3,3,4,4,5-ヘptaフルオロ5-(ペルフルオロブチル)オキソラン 又は2,2,3,3,4,4,5-ヘptaフルオロ4-(ペルフルオロブチル)オキソラン	335-36-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
2,2,3,3,4,4,5-Heptafluoro-5-(perfluorobutyl)oxolane or 2,2,3,3,4,4,5-Heptafluoro-4-(perfluorobutyl)oxolane	2,2,3,3,4,4,5-ヘptaフルオロ5-(ペルフルオロブチル)オキソラン 又は2,2,3,3,4,4,5-ヘptaフルオロ4-(ペルフルオロブチル)オキソラン	646-85-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
2,2,3,3,4,4,5-Heptafluoro-5-(perfluorobutyl)oxolane or 2,2,3,3,4,4,5-Heptafluoro-4-(perfluorobutyl)oxolane	2,2,3,3,4,4,5-ヘptaフルオロ5-(ペルフルオロブチル)オキソラン 又は2,2,3,3,4,4,5-ヘptaフルオロ4-(ペルフルオロブチル)オキソラン	40464-54-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
4-sec-Butyl-2,6-di-tert-butylphenol	4-sec-ブチル-2,6-ジ-tert-ブチルフェノール	17540-75-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
1,4-bis(Isopropylamino)-9,10-anthracenedione;	1,4-ビス(イソプロピルアミノ)-9,10-アントラキノン	14233-37-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000							●												
Tetraphosphorous	黄燐(マツチ)	12185-10-3	Prohibited	All applications and products	Relative to the weight of component parts and materials 1000								●											

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Benzotrichloride	ベンゾトリジン=トリクロリド(ベンゾトリクロリド)	98-07-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
Beryllium copper	ベリリウム銅	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Formaldehyde, oligomeric reaction products with aniline [technical MDA]	ホルムアルデヒド、アニリンによるオリゴマー反応生成物	25214-70-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000												●	●						
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	4-(1,1,3,3-テタメチルブチル)フェノール、エトキシレート	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
2-Ethoxyethyl acetate	セロソルブアセテート	111-15-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	アゾジカルボンアミド	123-77-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Formamide	ホルムアミド	75-12-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
N,N-dimethylacetamide	N,N-ジメチルアセトアミド	127-19-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
Phenolphthalein	3,3-ビス(4-ヒドロキシフェニル)イソベンゾフラン-1,(3H)-オン	77-09-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	トリグリシジルイソシアヌレート	2451-62-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
1,3,5-tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	1,3,5-Tris-[(2Sand 2R)-2,3-エポキシプロピル]-1,3,5-トリアジン-2,4,6-(1H,3H,5H)-トリオン	59653-74-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
4,4'-Bis(dimethylamino)benzophenone	4,4'-ビス(ジメチルアミノ)ベンゾフェノン	90-94-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
N,N,N,N-Tetramethyl-4,4-diaminodiphenylmethane	N,N,N,N-テトラメチル-4,4-メチレンジアニリン	101-61-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
a,a-bis[4-(dimethylamino)phenyl]-4-(phenylamino)-1-Naphthalenemethanol	α,α-ビス[4-(ジメチルアミノ)フェニル]-4-(フェニルアミノ)-1-ナフタレンメタノール	6786-83-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	ビス(4-ジメチルアミノフェニル)(4-メチルアミノフェニル)メタノール	561-41-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Henicosfluoroundecanoic acid	ペルフルオロウンデカン酸	2058-94-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	ヘキサヒドロフタル酸無水物	85-42-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	ヘキサヒドロフタル酸無水物	13149-00-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	ヘキサヒドロフタル酸無水物	14166-21-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Methoxyacetic acid	メトキシ酢酸	625-45-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
Furan	フラン	110-00-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
Propylene oxide	2-メチルオキシラン	75-56-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
Diethyl sulphate	硫酸ジエチル	64-67-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
Dimethyl sulphate	硫酸ジメチル	77-78-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	3-エチル-2-イソペンチル-2-メチル-1,3-オキサゾリジン	143860-04-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●
Sodium Perborate, all members	過ホウ酸ナトリウム、すべて			All applications and products	Relative to the weight of component parts and materials 1000																			
Sodium peroxometaborate	ペルオキソホウ酸ナトリウム、過ホウ酸ナトリウム	7632-04-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						●



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
Sodium perborate ; perboric acid, sodium salt	過ホウ酸ナトリウム; 過ホウ酸, ナトリウム塩	11138-47-9 (The CAS number that is introduced in Annex 15 Report)	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●				●			
Sodium perborate	過ホウ酸ナトリウム	15120-21-5 (The CAS number that is introduced in Annex 15 Report)	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●					●		
Orthoboric acid, sodium salt		13840-56-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●		
Perboric acid (H3BO2(O2)), monosodium salt trihydrate		13517-20-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●		
Perboric acid, sodium salt, tetrahydrate		37244-98-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●		
Perboric acid (HBO(O2)), sodium salt, tetrahydrate		10486-00-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●		
reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-(2-ethylhexyloxy)-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	10-エチル-4,4-ジオクチル-7-オキソ-8-オキサ-3,5-ジチア-4-スタンナテトラデカン酸2-エチルヘキシルと10-エチル-4-[[2-[[2-(エチルヘキシル)オキシ]-2-オキソエチル]チオ]-4-オクチル-7-オキソ-8-オキサ-3,5-ジチア-4-スタンナテトラデカン酸2-エチルヘキシルの反応生成物(DOTEとMOTEの反応生成物)※	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000		Mandatory																	●	
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	5-sec-ブチル-2-(2,4-ジメチルシクロヘキサ-3-エン-1-イル)-5-メチル-1,3-ジオキサン[1], 5-sec-ブチル-2-(4,6-ジメチルシクロヘキサ-3-エン-1-イル)-5-メチル-1,3-ジオキサン[2] ([1]と[2]の個々の異性体、またはその組合せも含む)	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
(4-Chlorophenyl)cyclopropylmethanone,O-[[4-nitrophenyl)methyl]oxime that has the molecular formula C17H15ClN2O3 (NCC ether)		94097-88-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Hexane, 1,6-diisocyanato-, homopolymer, reaction products with alpha-fluoro-omega-2-hydroxyethyl-poly(difluoromethylene), C16-20-branched alcohols and 1-octadecanol		496-03-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
2-Propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethyl methacrylate, gamma-omega-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate		203743-03-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5 furandione, gamma-omega-perfluoro-C8-14-alkyl esters, tert-Bu benzenecarbo peroxoate-initiated		459415-06-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
2-Propen-1-ol, reaction products with pentafluoroiodoethane tetrafluoroethylene telomer, dehydroiodinated, reaction products with epichlorohydrin and triethylenetetramine		464178-90-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Chlorine compounds, selected	塩素化合物, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																				
1,2,3Trichlorobezene	1,2,3-トリクロロベンゼン	87-61-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea		330-55-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
p-chlorobenzotrithloride		5216-25-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Dimethylsulfamoylchloride		13360-57-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
R-1-chloro-2,3-epoxypropane		51594-55-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
2,3-epoxypropyltrimethylammonium chloride		3033-77-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
1-(2-amino-5-chlorophenyl)-2,2,2-trifluoro-1,1-ethanediol, hydrochloride		214353-17-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
2-chloro-6-fluoro-phenol		2040-90-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
(2-chloroethyl)(3-hydroxypropyl)ammonium chloride		40722-80-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Chloro-N,N-dimethylformiminium chloride		3724-43-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
2,4,5-trimethylaniline hydrochloride		21436-97-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Dimethylcarbamoyl chloride		79-44-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Benzyl chloride		100-44-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
(methylenebis(4,1-phenylenazo(1-(3-(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxopyridine-5,3-diy)))-1,1'-dipyridinium dichloride dihydrochloride		118658-99-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
2-[2-hydroxy-3-(2-chlorophenyl)carbamoyl-1-naphthylazo]-7-[2-hydroxy-3-(3-methylphenyl)carbamoyl-1-naphthylazo]fluoren-9-one		151798-26-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
N,N-(dimethylamino)thioacetamide hydrochloride		27366-72-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
1,4-dichlorobut-2-ene		764-41-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Bromine compounds, selected	臭素化合物, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Potassium bromate		7758-01-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
1,2-dibromoethane		106-93-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
1,2-dibromo-3-chloropropane		96-12-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-bromopropane		75-26-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Hydrocarbons, selected	炭化水素類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Butane	ブタン	106-97-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Isobutane	イソブタン	75-28-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
1,2,3,4diepoxybutane	1,2,3,4ジエポキシブタン	1464-53-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	●
Etacelasil 6-(2-chloroethyl)-6-(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane		37894-46-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Diazomethane	ジアゾメタン	334-88-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Isoprene	イソプレン	78-79-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Chloroprene	クロロプレン	126-99-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Alcohols, selected	アルコール類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
R-2,3-epoxy-1-propanol		57044-25-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-(2-aminoethylamino)ethanol		111-41-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2,3-epoxypropanol		556-52-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Phenols, selected	フェノール類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
4,4-isobutylethylidenediphenol		6807-17-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
4-amino-3-fluorophenol		399-95-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
(E)-3-[1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenylbut-1-enyl]phenol		82413-20-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Ketones, selected	ケトン類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
2-butyl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one		94723-86-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Cyclic 3-(1,2-ethanediacetale)-estra-5(10),9(11)-diene-3,17-dione		5571-36-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Warfarin (S)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone (R)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone		81-81-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Warfarin (S)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone (R)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone		5543-57-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Warfarin (S)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone (R)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone		5543-58-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
N-3,5-dichlorophenyl-5-methyl-5-vinyl-1,3-oxazolidine-2,4-dione		50471-44-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
7-methoxy-6-(3-morpholin-4-yl-propoxy)-3H-quinazolin-4-one		199327-61-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
1-[4-[4-[[[2SR,4RS)-2-(2,4-dichlorophenyl)-2-(imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]ethanone		65277-42-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
1,4,5,8-tetraaminoanthraquinone		2475-45-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-propiolactone		57-57-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Tetrahydrothiopyran-3-carboxaldehyde	3-チアンカルバルデヒド	61571-06-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Esters, selected	エステル類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
2-ethylhexyl[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]thio]acetate		80387-97-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-methoxy-1-propanol acetate		70657-70-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Methyl azoxy methyl acetate		592-62-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Methyl acrylamidoglycolate		77402-05-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Butyl (RS)-2-[4-(5-trifluoromethyl-2-pyridyloxy)phenoxy]propionate		69806-50-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
(±) tetrahydrofurfuryl (R)-2-[4-(6-chloroquinoxalin-2-yloxy)phenoxy]propionate		119738-06-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Oxiranemethanol, 4-methylbenzene-sulfonate, (S)-		70987-78-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Diethanolamine perfluorooctane sulfonate		70225-14-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Ethyl 1-(2,4-dichlorophenyl)-5-(trichloromethyl)-1H-1,2,4-triazole-3-carboxylate		103112-35-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
4,4'-bi-o-Toluidine sulfate		74753-18-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
4-methyl-m-phenylenediamine sulfate		65321-67-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Potassium 1-methyl-3-morpholinocarbonyl-4-[3-(1-methyl-3-morpholinocarbonyl-5-oxo-2-pyrazolin-4-ylidene)-1-propenyl]pyrazole-5-olate		183196-57-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
(6-(4-hydroxy-3-(2-methoxyphenylazo)-2-sulfonato-7-naphthylamino)-1,3,5-triazin-2,4-diy)bis[[amino-1-methylethyl]ammonium] formate		108225-03-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Ammonium 2-amino-4-(hydroxymethylphosphiny)butyrate		77182-82-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Phenyl glycidyl ether	グリシジルフェニルエーテル	122-60-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Nitro compounds, selected	ニトロ化合物, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
(RS)-2,6-dinitro-4-octylphenyl crotonates and (RS)-2,4-dinitro-6-octylphenyl crotonates		39300-45-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-sec-butyl-4,6-dinitrophenyl-3-methylcrotonate		485-31-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-tert-butyl-4,6-dinitrophenol		1420-07-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
5-nitroacenaphthene		602-87-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-nitronaphthalene		581-89-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-nitroanisole		91-23-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2,6-dinitrotoluene		606-20-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2,3-dinitrotoluene		602-01-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
3,4-dinitrotoluene		610-39-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
3,5-dinitrotoluene		618-85-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2,5-dinitrotoluene		619-15-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-nitrotoluene		88-72-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
N-methyl-N-nitro-N-nitrosoguanidine		70-25-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
Dinitrotoluene		25321-14-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-nitropropane		79-46-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Amines, selected	アミン類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Salts of 2-naphthylamine		612-52-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Biphenyl-3,3',4,4'-tetraytetraamine		91-95-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Amide compounds, selected	アミド化合物, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Thioacetamide		62-55-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
N-methylformamide		123-39-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
N-[6,9-dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]-6-oxo-1H-purin-2-yl]acetamide		84245-12-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
N-(7-fluoro-3,4-dihydro-3-oxo-4-prop-2-ynyl-2H-1,4-benzoxazin-6-yl)cyclohex-1-ene-1,2-dicarboxamide		103361-09-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Hexamethylphosphoracid triamid		680-31-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Imide compounds, selected	イミド化合物, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Cycloheximide		66-81-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
1,2,3,6-tetrahydro-N-(1,1,2,2-tetrachloroethylthio)phthalimide		2425-06-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Hydrazine compound, selected	ヒドラジン化合物, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
Phenylhydrazine		100-63-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Phenylhydrazinium chloride		59-88-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Phenylhydrazine hydrochloride		27140-08-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Phenylhydrazinium sulphate (2:1)		52033-74-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
N,N-dimethylhydrazine		57-14-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
1,2-dimethylhydrazine		540-73-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
1,2-diphenylhydrazine		122-66-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Hydrazine bis(3-carboxy-4-hydroxybenzenesulfonate)		EC405-030-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Hydrazine-trinitromethane		EC414-850-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Carbamate compounds, selected	カーバメート類, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																			
O-isobutyl-N-ethoxy carbonylthiocarbamate		103122-66-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Ethyl carbamate		51-79-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
O-hexyl-N-ethoxycarbonylthiocarbamate		EC432-750-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate		17804-35-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
[3,3'-dimethyl[1,1'-biphenyl]-4,4'-diy]diammonium bis(hydrogen sulphate)	(3,3'-ジメチル(1,1'-ビフェニル)-4,4'-ジリル)ジアモニウムビス(ヒドロジェンサルフェート)	64969-36-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
3-amino-9-ethyl carbazole	3-アミノ-N-エチルカルバゾール	132-32-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2,6-dimethyl-4-tridecylmorpholine	4-トリデシル-2,6-ジメチルモルホリン	24602-86-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-methylaziridine	2-メチルアジリジン	75-55-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
5-allyl-1,3-benzodioxole	5-アリル-1,3-ベンゾジオキソール	94-59-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
Ethene oxide	酸化エチレン	75-21-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
2-(methoxycarbonylhydrazonomethyl)quinoxaline 1,4-dioxide	2-(メトキシカルボニルヒドラゾノメチル)キノキサリン1,4-ジオキソド	6804-07-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)		
Quinoline	キノリン	91-22-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●			
Colchicine	コルヒチン	64-86-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	●	
Azobenzene	アゾベンゼン	103-33-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	●	
6-hydroxy-1-(3-isopropoxypropyl)-4-methyl-2-oxo-5-[4-(phenylazo)phenylazo]-1,2-dihydro-3-pyridinecarbonitrile	6-ヒドロキシ-1-(3-イソプロポキシプロピル)-4-メチル-2-オキソ-5-[4-(フェニルアゾ)フェニルアゾ]-1,2-ジヒドロ-3-ピリジンカルボニトリル	85136-74-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●		
Trisodium [4'-(8-acetylamino-3,6-disulfonato-2-naphthylazo)-4''-(6-benzoylamino-3-sulfonato-2-naphthylazo)-biphenyl-1,3',3'',1'''-tetraolato-O,O',O'',O''']copper(II)	[4'-(8-アセチルアミノ-3,6-ジスルホナト-2-ナフチルアゾ)-4''-(6-ベンゾイルアミノ-3-スルホナト-2-ナフチルアゾ)-ビフェニル-1,3',3'',1'''-テトラオラト-O,O',O'',O''']銅(II) 三ナトリウム	164058-22-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●		
Azafenidin	アザフェニジン	68049-83-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Bis(4-fluorophenyl)(methyl)(1H-1,2,4-triazol-1-ylmethyl)silane	1-[[ビス(4-フルオロフェニル)メチルシリル]メチル]-1H-1,2,4-トリアゾール	85509-19-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
(4-ethoxyphenyl)(3-(4-fluoro-3-phenoxyphenyl)propyl)dimethylsilane	1-[3-[(4-エトキシフェニル)ジメチルシリル]プロピル]-4-フルオロ-3-フェノキシベンゼン	105024-66-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Ethyleneimine	エチレンイミン	151-56-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Erionite	エリオナイト	12510-42-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Slimes and sludges,copper electrolyte refining,decopperised		94551-87-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Carbon monoxide	一酸化炭素	630-08-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●	
Dyes, selected	染料, 抜粋			All applications and products	Relative to the weight of component parts and materials 1000																				
2-Aminoanthraquinone		117-79-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
1-Amino-2,4-dibromoanthraquinone		81-49-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
3-Amino-9-ethylcarbazole hydrochloride		6109-97-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole		712-68-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
4-Amino-2-nitrophenol		119-34-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
o-Anisidine hydrochloride		134-29-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
Auramine		492-80-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
Benzyl violet 4B		1694-09-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
Carbazole		86-74-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
p-Chloroaniline hydrochloride		20265-96-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
C.I. Direct Blue 218		28407-37-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
C.I. Disperse Yellow 3		2832-40-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
C.I. Solvent Yellow 14		842-07-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
Citrus Red No. 2		6358-53-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
D&C Orange No. 17		3489-63-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
D&C Red No. 8		2092-56-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
D&C Red No. 9		5160-02-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
D&C Red No. 19		81-88-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
Dibenzo[a,e]pyrene		192-65-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
Dibenzo[a,h]pyrene		189-64-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
Dibenzo[a,i]pyrene		189-55-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
Dibenzo[a,j]pyrene		191-30-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●
m-Dinitrobenzene		99-65-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																				●

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
o-Dinitrobenzene		528-29-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
p-Dinitrobenzene		100-25-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Di-n-propyl isocinchomeronate		136-45-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
HC Blue 1		2784-94-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
5-Methoxypsoralen with ultraviolet A therapy		484-20-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
8-Methoxypsoralen with ultraviolet A therapy		298-81-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
3-(N-Nitrosomethylamino) propionitrile		60153-49-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Oil Orange SS		2846-17-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Ponceau MX		3761-53-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Ponceau 3R		3564-09-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)		26148-68-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
2-Acetylaminofluorene		53-96-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
2-Aminofluorene		153-78-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Androstenedione		60-11-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Antraquinone		84-65-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Bromacil lithium salt		53404-19-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Bromate		15541-45-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Bromochloroacetic acid		5589-96-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Butylated hydroxyanisole		25013-16-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Carbon disulfide		75-15-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Cytembena		21739-91-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
2,4-D butyric acid		94-82-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
trans-2-[[Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole		55738-54-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
7,12-Dimethylbenz(a)anthracene		57-97-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
2,6-Dimethyl-N-nitrosomorpholine (DMNM)		1456-28-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
3,7-Dinitrofluoranthene		105735-71-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
3,9-Dinitrofluoranthene		22506-53-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Estropipate		7280-37-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Gitu-P-1 (2-Amino-6-methyldipyrdo[1,2-a:3',2'-d]imidazole)		67730-11-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Gitu-P-2 (2-Aminodipyrdo[1,2-a:3',2'-d]imidazole)		67730-10-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Hexachlorodibenzodioxin		34465-46-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Iodine-131		10043-66-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
MeIQ (2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)		77094-11-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
MeIQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)		77500-04-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
MOPP (vincristine-prednisone-nitrogen mustard-procarbazine mixture)		113803-47-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
1-Naphthylamine		134-32-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Palygorskite fibers (> 5mm in length)		12174-11-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Propylene glycol mono-t-butyl ether		57018-52-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Tetranitromethane		509-14-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
4-Vinylcyclohexene		100-40-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
4-Vinyl-1-cyclohexene diepoxide (Vinyl cyclohexenedioxide)		106-87-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Vinyl fluoride		75-02-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Nitrobenzene	ニトロベンゼン	98-95-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●					●	
tetrachloroethylene (ethylene tetrachloride ; perchloroethylene)		127-18-4	Observation	All applications and products	Relative to the weight of component parts and materials 100						●													
trichloromethane (chloroform)	クロロホルム	67-66-3	Observation	All applications and products	Relative to the weight of component parts and materials 100																			
vinylidene dichloride (1,1-dichloroethene ; 1,1-dichloroethylene)		75-35-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			
Benzen,1,2,4,5-tetrabromo-3-(2,4-dibromophenoxy)-		116995-33-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate		57583-35-4	Observation	All applications and products	Relative to the weight of component parts and materials 10																			●
technical 1,2,3,4,5,6-hexachlorocyclohexane (HCH mixed isomers)		608-73-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Substances which appear inPart 3 of Annex VI toRegulation (EC) No 1272/2008classified as carcinogeniccategory 1A or 1B (Table 3.1)or carcinogen category 1 or 2(Table 3.2) and listed asfollows	発癌性物質CLP規則の附属書VI においてに発がん性または生殖毒性物質 (CMR) 区分1A または1Bに新たに調和分	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Substances which appear inPart 3 of Annex VI toRegulation (EC) No 1272/2008classified as germ cellmutagen category 1A or 1B(Table 3.1) or mutagencategory 1 or 2 (Table 3.2) andlisted as follows	変異原性物質	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Substances which appear inPart 3 of Annex VI toRegulation (EC) No 1272/2008classified as toxic to reproduction category 1A or1B (Table 3.1) or toxic to reproduction category 1 or 2(Table 3.2) and listed asfollows:	生殖毒性物質CLP規則の附属書VI においてに発がん性または生殖毒性物質 (CMR) 区分1Aまたは1Bに新たに調和分	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Substances meeting thecriteria of flammability inDirective 67/548/EEC andclassified as flammable, highlyflammable or extremelyflammable regardless ofwhether they appear in Part 3of Annex VI to Regulation (EC)No 1272/2008 or not.	67/548/EECで引火性基準を満たし (EC)No1272/2008附属書VI第3部で定義されるかに関わらず、非常に可燃性があると分類されるもの	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
	ホスフィニジンジウム(III)	22398-80-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
	スルファレート	95-06-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Rubber paste which contains benzene (more than 5%)	ベンゼン(5%超)含有ゴムのり	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000								●											
4,4'-Methylenebisaniiline	4,4'-メチレンビスアニリン	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Soap bark powder (Quillaja saponaria) and its derivatives containing saponines, benzidine and / or its derivatives, o-Nitrobenzaldehyde, wood powder	セッケンボクの粉末及びサポニンを含むその誘導体類、ベンジジン及び/またはその誘導体類、o-ニトロベンズアルデヒド、木粉	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Di-μ-oxo-di-n-butylstanniohydroxyborane (DBB)	ジ-μ-オキソジ-ブチルスズヒドロキシボラン (DBB)	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
	シクロヘキサン	1735-17-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Dimethyl Fumarate	ジメチル=フマラート	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Inorganic ammonium salts	無機アンモニウム塩	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
4-Nitrodiphenyl and its salts	4-ニトロジフェニル及びその塩	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000								●											
3,3'-dichlorobenzidine dihydrogen bis(sulphate)		64969-34-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000																			●
Slags, lead-zinc smelting		93763-87-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000			●	●															●
	2-エチル-2-ヒドロキシメチルヘキサン酸	101051-51-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000						●													
	トリアリルイソシアヌレート	1025-15-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000						●													
	トリプロピルアミン	102-69-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000						●													
	アクリナトリン(unstated isomers)	103833-18-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000						●													

5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
	1,2-ジフェノキシエタン	104-66-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	5,6,7,8-テトラヒドロキノリン	10500-57-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	1,1'-(メチレンビス(4,1-フェニレンアゾ(1-(3-(ジメチルアミノ)プロピル)-6-ヒドロキシ-4-メチル-2(H)ピリドン-5,3-ジイル)))ジピリジニウム=ジクロライド-(2H)	105994-38-5	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	N-イソプロピルマレimid	1073-93-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	1-クロロブタン	109-69-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	チオフェン	110-02-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	α-(1-((アリオキシ)メチル)-2-(ニルフェノキシ)エチル)-ω-ヒドロキシポリ(n=1~100)(オキシエチレン)	111144-60-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	アクリル酸=3-テトラシクロ(4.4.0.1 2.5 . 1 7.10)ドデシル	111404-23-0	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	クロルデン(technical grade)	12789-03-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	テトラエチルビロホスファイト	21646-99-1	Observation	All applications and products	Relative to the weight of component parts and materials 1000									●										
	ジクロロビフェニル(unspecified isomers)	25512-42-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	イミダゾール	288-32-4	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
	α-クロルデン	5103-71-9	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	β-クロルデン	5103-74-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
	γ-クロルデン	5566-34-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
Tributyltin oxide	酸化トリブチルスズ	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000					●														
Powder of the root of Hellebours viridis and Helleboursniger	Hellebours viridis及びHelleboursnigerの根の粉末	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●								
Powder of the root of Vetatrum album and Vetatrumnigrum	Vetatrum album及びVetatrumnigrumの根の粉末	—	Observation	All applications and products	Relative to the weight of component parts and materials 1000											●								
reaction mass of: 4-[[bis-(4-fluorophenyl)methylsilyl]methyl]-4H-1,2,4-triazole		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
dimethyl 2-(hydroxymethylcarbamoyl)ethyl)phosphonate; diethyl 2-(hydroxymethylcarbamoyl)ethyl)phosphonate; methyl ethyl(2-hydroxymethylcarbamoyl)ethyl)phosphonate		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
zinc chromates including zinc potassium chromate		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
Chromium (VI) compounds, with the exception of bariumchromate and of compounds specified elsewhere in this Annex		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
arsenic acid and its salts with the exception of those specified elsewhere in this Annex		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
lead compounds with the exception of those specified elsewhere in this Annex		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
lead alkyls		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
reaction mass of: disodium 4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-hydroxy-1-(4-sulfonatophenyl)pyrazol-4-yl)penta-2,4-dienylidene)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulfonate trisodium 4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-oxido-1-(4-sulfonatophenyl)pyrazol-4-yl)penta-2,4-dienylidene)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulfonate		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
diammonium 1-hydroxy-2-(4-(4-carboxyphenylazo)-2,5-dimethoxyphenylazo)-7-amino-3-naphthalenesulfonate		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
salts and esters of dinoseb, with the exception of those specified elsewhere in this Annex		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
salts and esters of dinoterb		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		



5. List of NSK Environmentally Harmful Substances(details)

※ in the table ● mark indicates a chemical substance corresponding to regulations.

Substance	Substance (in Japanese)	CAS-No.	NSK Management Classification	Target applications Target NSK products	NSK management criteria Acceptable concentration (threshold value) ppm	2017 GADSL Management classification	IEC62474 D13.00	RoHS Directive	ELV Directive	The Chemical Substances Control Law Class I Specified Chemical Substances	The Chemical Substances Control Law Class II Specified Chemical Substances	The Chemical Substances Control Law Chemical Substances Subject to Monitoring	Prohibited under the Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act Specified Poisons	Environmental Quality Standards for Groundwater Pollution	REACH Annex XVII Restricted Substances	REACH Annex XIV Authorized Substances	REACH SVHC 1st~16th	ESIS PBT Fulfilling	POPs Convention	Prohibition of Certain Toxic Substances Regulations, 2012 (Canada)	CLP Regulations Annex VI Table 3.2 List of Carcinogenic, Reprotoxic and/or Mutagenic (CMR) Substances (Category 1&2)	Proposition 65: Safe Drinking Water and Toxic Enforcement Act of 1986 (California state law)	
Benzidine based azo dyes;4,4'-diarylazobiphenyl dyes, with the exception of those specified elsewhere in this Annex		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																	●		
o-dianisidine based azo dyes;4,4'-diarylo-3,3'-dimethoxybiphenyl dyes with the exception of those mentioned elsewhere in this Annex		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
o-tolidine based dyes;4,4'-diarylo-3,3'-dimethylbiphenyl dyes, with the exception of those mentioned elsewhere in this Annex		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
salts of 3,3'-dimethoxybenzidine		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
salts of 3,3'-dichlorobenzidine		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
salts of biphenyl-4-ylamine		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
methyl-phenylene diamine; diaminotoluene; [technical product – reaction mass of 4-methyl-m-phenylene diamine(EC No 202-453-1) and 2-methyl-m-phenylene diamine(EC No 212-513-9)]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
salts of 2,2'-dichloro-4,4'-methylenedianiline		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
(2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[1H-1,2,4-triazol-1-yl)methyl]oxirane		133855-98-8	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
reaction mass of: 1,3,5-tris(3-aminomethylphenyl)-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
reaction mass of: N-[3-hydroxy-2-(2-methylacryloylaminoethoxy)propoxymethyl]-2-methylacrylamide		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000																		●	
4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]		—	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		3108-42-7	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		335-76-2	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		3830-45-3	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						
p-(1,1-dimethylpropyl)phenol		80-46-6	Observation	All applications and products	Relative to the weight of component parts and materials 1000													●						

6. Substances added

(Substances added to the List of Environmentally Harmful Substances Ver. 6.4)

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Amines, coco alkyl		61788-46-3	2017 GADSL
Reduced	Arsenic trifluoride	フッ化砒素(Ⅲ)	7784-35-2	REACH AnnexXVII
Reduced	Arsenic pentafluoride	フッ化砒素(Ⅴ)	7784-36-3	REACH AnnexXVII
Reduced	Arsenic pentachloride	五塩化砒素	22441-45-8	REACH AnnexXVII
Reduced	Tetraarsenic tetrasulfide	四硫化四砒素	12279-90-2	REACH AnnexXVII
Reduced	Arsenic disulfide	硫化第一砒素	1303-32-8	REACH AnnexXVII
Reduced	Copper arsenate	ヒ酸銅	16102-92-4	REACH AnnexXVII
Reduced		ヒ酸クロム酸化銅(CCA)	37337-13-6	REACH AnnexXVII
Reduced	Alkyl-arsenic compounds not specified this list	アルキルヒ素化合物のうち、本リスト上で特定されていない物質	—	REACH AnnexXVII
Observation	Benzenemethanaminium, N-ethyl-N-[4-[[4-ethyl[(3-sulfophenyl)methyl]amino]phenyl](2-sulfophenyl)methylene]-2,5-cyclohexadien-1-ylidene]-3-sulfo-, hydroxide, inner salt, disodium salt		3844-45-9	2017 GADSL
Observation	1,2-benzenedicarboxylic acid, di-C11-14-branched alkyl esters, C13-rich		68515-47-9	2017 GADSL
Observation	Benzenepropanoic acid, 3-(1,1-dimethylethyl)-4-hydroxy-5-methyl-, 1,2-ethanediybis(oxy-2,1-ethanediy) ester		36443-68-2	2017 GADSL
Observation	Benzenesulfonic acid, C10-16-alkyl derivs.		68584-22-5	2017 GADSL
Observation	Benzenesulfonic acid, C10-16-alkyl derivs, compds. with 2-propanamine		68584-24-7	2017 GADSL
Observation	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts		68411-30-3	2017 GADSL
Observation	Benzenesulfonic acid, dodecyl(sulfophenoxy)-, sodium salt (1:2)		28519-02-0	2017 GADSL
Observation	Benzenesulfonic acid, oxybis[dodecyl-, disodium salt		25167-32-2	2017 GADSL
Observation	Benzenesulfonic acid, [[4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]phenyl]amino]- (Pigment Blue 61)		1324-76-1	2017 GADSL
Prohibited		2,2'-ジクロロベンジジン	84-68-4	Prohibited under the Industrial Safety and Health Act
Prohibited		ジクロロベンジジン	1331-47-1	Prohibited under the Industrial Safety and Health Act
Observation	Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,4-bis(1,1-dimethylethyl)phenyl ester		4221-80-1	2017 GADSL
Observation	2(3H)-Benzothiazolethione, sodium salt (1:1)		2492-26-4	2017 GADSL
Observation	2-(2H-benzotriazol-2-yl)-p-cresol (UV-P)		2440-22-4	2017 GADSL
Reduced Observation	Copper sulphate pentahydrate		7758-99-8	2017 GADSL
Observation	Poly[iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediy], hydrochloride		1802181-67-4	2017 GADSL
Observation	Silver adsorbed on silicon dioxide (as a nanomaterial in the form of a stable aggregate with primary particles in the nanoscale)		1167997-68-3	2017 GADSL
Observation	Silver sodium hydrogen zirconium phosphate	リン酸-銀-ナトリウム-ジルコニウム	265647-11-8	2017 GADSL
Prohibited Reduced		ジメチルカドミウム	506-82-1	REACH AnnexXVII
Prohibited Reduced		カドミウムシクロヘキサンプチレート	55700-14-6	REACH AnnexXVII
Prohibited Reduced		酢酸カドミウム含水和物	5743-04-4	REACH AnnexXVII
Prohibited Reduced		ジエチルカドミウム	592-02-9	REACH AnnexXVII



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited Reduced		硫酸カドミウム含水和物	15244-35-6	REACH AnnexXVII
Prohibited Reduced		セレン酸カドミウム(II)・二水和物	10060-09-0	REACH AnnexXVII
Prohibited Reduced		ドデシルベンゼンスルホン酸カドミウム(I)	31017-44-4	REACH AnnexXVII
Prohibited Reduced		チオシアン酸カドミウム(II)	865-38-3	REACH AnnexXVII
Prohibited Reduced		オクタン酸カドミウム(II)	2191-10-8	REACH AnnexXVII
Prohibited Reduced		4-メチル安息香酸カドミウム(II)	2420-97-5	REACH AnnexXVII
Prohibited Reduced		ラウリン酸カドミウム(II)	2605-44-9	REACH AnnexXVII
Prohibited Reduced		デカン酸カドミウム(II)	2847-16-7	REACH AnnexXVII
Prohibited Reduced		安息香酸カドミウム(II)	3026-22-0	REACH AnnexXVII
Prohibited Reduced		4-(1,1-ジメチルエチル)安息香酸カドミウム(II)	4167-05-9	REACH AnnexXVII
Prohibited Reduced		ノナン酸カドミウム(II)	5112-16-3	REACH AnnexXVII
Prohibited Reduced		パルミチン酸カドミウム(II)	6427-86-7	REACH AnnexXVII
Prohibited Reduced		過塩素酸カドミウム(II)・六水和物	10326-28-0	REACH AnnexXVII
Prohibited Reduced		オレイン酸カドミウム(II)	10468-30-1	REACH AnnexXVII
Prohibited Reduced		過塩素酸カドミウム(II)	13760-37-7	REACH AnnexXVII
Prohibited Reduced		三塩化カドミウムカリウム	14429-85-7	REACH AnnexXVII
Prohibited Reduced		ビス(2,4-ペンタンジオナト-O, O')カドミウム	14689-45-3	REACH AnnexXVII
Prohibited Reduced		ビス(1-ペリジナルポジチオアト-S, S')カドミウム	14949-59-8	REACH AnnexXVII
Prohibited Reduced		六塩化カドミウムカリウム	15276-40-1	REACH AnnexXVII
Prohibited Reduced		三臭化カドミウムルビジウム	16593-57-0	REACH AnnexXVII
Prohibited Reduced		三塩化カドミウムアンモニウム	18532-52-0	REACH AnnexXVII
Prohibited Reduced		三塩化カドミウムルビジウム	18532-58-6	REACH AnnexXVII
Prohibited Reduced		フェノールカドミウム塩	18991-05-4	REACH AnnexXVII
Prohibited Reduced		四塩化カドミウムナトリウム	21360-94-1	REACH AnnexXVII
Prohibited Reduced		塩素酸カドミウム(II)	22750-54-5	REACH AnnexXVII
Prohibited Reduced		メチル安息香酸カドミウム(II)	27476-27-3	REACH AnnexXVII
Prohibited Reduced		硫酸ナトリウムカドミウム	28038-18-8	REACH AnnexXVII
Prohibited Reduced		硫酸カリウムカドミウム	28038-25-7	REACH AnnexXVII
Prohibited Reduced		硫酸セシウムカドミウム	28041-77-2	REACH AnnexXVII
Prohibited Reduced		三塩化カドミウムカリウム・一水和物	28302-54-7	REACH AnnexXVII
Prohibited Reduced		イソオクタン酸カドミウム(II)	30304-32-6	REACH AnnexXVII
Prohibited Reduced		硫酸カリウムカドミウム・六水和物	30623-04-2	REACH AnnexXVII
Prohibited Reduced		(1,1-ジメチルエチル)安息香酸カドミウム(II)	31215-94-8	REACH AnnexXVII
Prohibited Reduced		三ヨウ化カドミウムアンモニウム	32593-99-0	REACH AnnexXVII
Prohibited Reduced		硫酸セシウムカドミウム・六水和物	34345-39-6	REACH AnnexXVII
Prohibited Reduced		塩化カドミウム(II)・一水和物	35658-65-2	REACH AnnexXVII
Prohibited Reduced		3,5,5-トリメチルヘキサン酸カドミウム(II)	36211-44-6	REACH AnnexXVII
Prohibited Reduced		硫酸カリウムカドミウム・二水和物	38386-25-3	REACH AnnexXVII
Prohibited Reduced		(R)-12-ヒドロキシオクタデカン酸カドミウム(II)	38517-19-0	REACH AnnexXVII
Prohibited Reduced		2-メチル安息香酸カドミウム(II)	52337-78-7	REACH AnnexXVII
Prohibited Reduced		三塩化カドミウムナトリウム	55425-74-6	REACH AnnexXVII

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited Reduced		ネオデカン酸カドミウム(II)	61951-96-0	REACH AnnexXVII
Prohibited Reduced		ペンタデカン酸カドミウム(II)	63400-09-9	REACH AnnexXVII
Prohibited Reduced		(Z, Z)-9, 12-オクタデカジエン酸カドミウム(II)	67939-62-2	REACH AnnexXVII
Prohibited Reduced		3-メチル安息香酸カドミウム(II)	68092-45-5	REACH AnnexXVII
Prohibited Reduced		12-ヒドロキシオクタデカン酸カドミウム(II)	69121-20-6	REACH AnnexXVII
Prohibited Reduced		ビス[(Z)-2-ブテン二酸モノオクタデシル]カドミウム(II)	71599-06-9	REACH AnnexXVII
Prohibited Reduced		22-トリコセン酸カドミウム(II)	76835-97-7	REACH AnnexXVII
Prohibited Reduced		六塩化カドミウムマグネシウム・十二水和物	77289-75-9	REACH AnnexXVII
Prohibited Reduced		イソノナン酸カドミウム(II)	84696-56-0	REACH AnnexXVII
Prohibited Reduced		イソオクタデカン酸カドミウム(II)	84878-36-4	REACH AnnexXVII
Prohibited Reduced		tert-デカン酸カドミウム(II)	84878-37-5	REACH AnnexXVII
Prohibited Reduced		ノニルフェノールカドミウム(II)	84878-48-8	REACH AnnexXVII
Prohibited Reduced		オクチルフェノールカドミウム(II)	84878-51-3	REACH AnnexXVII
Prohibited Reduced		2-プロピルペンタン酸カドミウム(II)	87835-30-1	REACH AnnexXVII
Prohibited Reduced		4-ノニルフェノールカドミウム(II)	93894-08-7	REACH AnnexXVII
Prohibited Reduced		4-(1, 1, 3, 3-テトラメチルブチル)フェノールカドミウム(I)	93894-09-8	REACH AnnexXVII
Prohibited Reduced		イソデカン酸カドミウム(II)	93965-24-3	REACH AnnexXVII
Prohibited Reduced		イソウンデカン酸カドミウム(II)	93965-30-1	REACH AnnexXVII
Prohibited Reduced		ジメチルヘキサン酸カドミウム(II)	93983-65-4	REACH AnnexXVII
Prohibited Reduced		イソヘキサデカン酸カドミウム(II)	95892-12-9	REACH AnnexXVII
Prohibited Reduced		(Z)-2-ブテン二酸モノ(2-メチルプロピル)カドミウム(II)	97259-82-0	REACH AnnexXVII
Prohibited Reduced		四ヨウ化カドミウムアンモニウム	105034-60-4	REACH AnnexXVII
Prohibited Reduced		テトラコサン酸カドミウム(II)	116854-17-2	REACH AnnexXVII
Prohibited Reduced		臭素酸カドミウム	14518-94-6	REACH AnnexXVII
Prohibited Reduced		硫酸カドミウム・四水和物	13477-21-9	REACH AnnexXVII
Prohibited Reduced		硫酸カドミウム・八水和物	22465-18-5	REACH AnnexXVII
Prohibited Reduced		水酸化カドミウム・水和物	29736-89-8	REACH AnnexXVII
Prohibited Reduced		エチレンジアミン四酢酸二ナトリウムカドミウム	30363-28-1	REACH AnnexXVII
Prohibited Reduced		ナフテン酸カドミウム	61789-34-2	REACH AnnexXVII
Prohibited Reduced		過塩素酸カドミウム・水和物	79490-00-9	REACH AnnexXVII
Prohibited Reduced		酢酸カドミウム・水和物	89759-80-8	REACH AnnexXVII
Prohibited	1,1,2-tetrachloroethane		79-34-5	REACH AnnexXVII
Prohibited		ペンタクロロエタン	76-01-7	REACH AnnexXVII
Observation	5-Chlorobenzotriazole, 2-(2-Hydroxy-3-tert-butyl-5-methylphenyl)- (UV-326)		3896-11-5	2017 GADSL
Observation	Diisodecyl azelate		28472-97-1	2017 GADSL
Prohibited Reduced	Other dibutyltin compounds		—	IEC 62474
Prohibited Reduced	Other Dioctyltin compounds		—	IEC 62474
Observation	2,6-di-tert-butyl-p-cresol		128-37-0	2017 GADSL
Observation	6,6'-di-tert-butyl-4,4'-thiodi-m-cresol		96-69-5	2017 GADSL
Observation	2,5-di-tert-pentylhydroquinone		79-74-3	2017 GADSL
Observation	2,2'-Dithiobis(benzothiazole)		120-78-5	2017 GADSL



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (Dichlorane Plus)		13560-89-9	2017 GADSL
Observation	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, chloride (Basic Blue 7)		2390-60-5	2017 GADSL
Observation	2,5-Furandione,dihydro-3-(tetrapropenyl)-		26544-38-7	2017 GADSL
Observation	Hexamethyldisiloxane		107-46-0	2017 GADSL
Observation	2-Hexyldecan-1-ol		2425-77-6	2017 GADSL
Observation	Indium tin oxide (ITO)		50926-11-9	2017 GADSL
Observation	Isodecyl diphenyl phosphate		29761-21-5	2017 GADSL
Observation	4,4'-isopropylidenediphenol		80-05-7	2017 GADSL
Observation	Isopropylphenyl phosphate		68937-41-7	2017 GADSL
Prohibited Reduced	Lead 198		16646-00-7	REACH AnnexXVII
Prohibited Reduced	Lead 199		27486-00-6	REACH AnnexXVII
Prohibited Reduced	Lead 200		16645-99-1	REACH AnnexXVII
Prohibited Reduced	Lead 201		17239-87-1	REACH AnnexXVII
Prohibited Reduced	Lead 203		14687-25-3	REACH AnnexXVII
Prohibited Reduced	Lead 209		14119-30-3	REACH AnnexXVII
Prohibited Reduced	Lead 211		15816-77-0	REACH AnnexXVII
Prohibited Reduced	Lead 212		15092-94-1	REACH AnnexXVII
Prohibited Reduced	Lead 214		15067-28-4	REACH AnnexXVII
Prohibited Reduced	Lead styphnate		63918-97-8	REACH AnnexXVII
Prohibited Reduced	Lead Hydroxide	水酸化鉛オキシド	1311-11-1	REACH AnnexXVII
Prohibited Reduced		四アルキル鉛	—	REACH AnnexXVII
Prohibited Reduced		塩素酸鉛(II)	10294-47-0	REACH AnnexXVII
Prohibited Reduced		亜塩素酸鉛(II)	13453-57-1	REACH AnnexXVII
Prohibited Reduced		過塩素酸鉛(II)・三水和物	13453-62-8	REACH AnnexXVII
Prohibited Reduced		塩素酸鉛(II)・一水和物	13510-96-8	REACH AnnexXVII
Prohibited Reduced		臭化鉛(IV)	13701-91-2	REACH AnnexXVII
Prohibited Reduced		4-メチル安息香酸鉛(IV)	15516-84-4	REACH AnnexXVII
Prohibited Reduced		臭化鉛(I)	15576-47-3	REACH AnnexXVII
Prohibited Reduced		フェノール鉛(II)塩	20534-94-5	REACH AnnexXVII
Prohibited Reduced		メチル安息香酸鉛(II)	27496-91-9	REACH AnnexXVII
Prohibited Reduced		テトラコサン酸鉛(II)	28267-01-8	REACH AnnexXVII
Prohibited Reduced		ビス(ジイソプロピルジチオカルバマト)鉛	30051-53-7	REACH AnnexXVII
Prohibited Reduced		2-メチル安息香酸鉛(IV)	34295-32-4	REACH AnnexXVII
Prohibited Reduced		2-メチル安息香酸鉛(II)	52337-73-2	REACH AnnexXVII
Prohibited Reduced		[N, N-ビス(カルボキシメチル)グリシナト(3-)-N, O, O', O']鉛酸ナトリウム	53113-58-9	REACH AnnexXVII
Prohibited Reduced		4-メチル安息香酸鉛(II)	58274-53-6	REACH AnnexXVII
Prohibited Reduced		ウンデカン酸鉛(II)	63400-07-7	REACH AnnexXVII
Prohibited Reduced		ノナン酸鉛(II)	63400-08-8	REACH AnnexXVII

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited Reduced		ビス[(E)-9-オクタデセン酸]鉛(II)	69637-83-8	REACH AnnexXVII
Prohibited Reduced		ビス(ジプロピルカルバモジチオアト-S, S')鉛	70995-63-0	REACH AnnexXVII
Prohibited Reduced		2-ヒドロキシエタンスルホン酸鉛(II)	72437-77-5	REACH AnnexXVII
Prohibited Reduced		22-トリコセン酸鉛(II)	76835-98-8	REACH AnnexXVII
Prohibited Reduced		六フッ化ケイ酸鉛(II)・四水和物	83689-82-1	REACH AnnexXVII
Prohibited Reduced		2-プロピルペンタン酸鉛(II)	87835-32-3	REACH AnnexXVII
Prohibited Reduced		2-ブチル安息香酸鉛(II)	91187-55-2	REACH AnnexXVII
Prohibited Reduced		2-ヒドロキシ-1-プロパンスルホン酸鉛(II)	103427-19-6	REACH AnnexXVII
Prohibited Reduced		シュウ酸鉛(II)・三水和物	128226-81-3	REACH AnnexXVII
Prohibited Reduced		炭酸鉛	13427-42-4	REACH AnnexXVII
Prohibited Reduced		シュウ酸鉛(1:?)	15843-48-8	REACH AnnexXVII
Prohibited Reduced		フェノール鉛塩(1:?)	25987-03-5	REACH AnnexXVII
Prohibited Reduced		ノナン酸鉛(1:?)	41234-07-5	REACH AnnexXVII
Prohibited Reduced		2-メチル安息香酸鉛(1:?)	76925-97-8	REACH AnnexXVII
Prohibited Reduced		ヒドロキシベンゼンスルホン酸鉛(1:?)	82696-30-8	REACH AnnexXVII
Prohibited Reduced		2-ヒドロキシ-1-プロパンスルホン酸鉛(1:?)	114601-64-8	REACH AnnexXVII
Prohibited Reduced		1-ヒドロキシ-2-プロパンスルホン酸鉛(1:?)	133988-90-6	REACH AnnexXVII
Prohibited Reduced		オキシシアン化水銀(II)	31065-88-0	REACH AnnexXVII
Prohibited Reduced		シアン化水銀(I)	37020-93-2	REACH AnnexXVII
Prohibited Reduced		(4-メチル-N-フェニルベンゼンスルホンアミダト-N)フェニル水銀	2440-34-8	REACH AnnexXVII
Prohibited Reduced		炭酸水銀(II)	13004-83-6	REACH AnnexXVII
Prohibited Reduced		チオシアン酸水銀(I)	13465-37-7	REACH AnnexXVII
Prohibited Reduced		過塩素酸水銀(I)	13932-02-0	REACH AnnexXVII
Prohibited Reduced		アジ化水銀(II)	14215-33-9	REACH AnnexXVII
Prohibited Reduced		ジアンミンジクロロ水銀	14376-09-1	REACH AnnexXVII
Prohibited Reduced		アジ化水銀(I)	14990-20-6	REACH AnnexXVII
Prohibited Reduced		テトラシアノ水銀酸ニタリウム	15634-23-8	REACH AnnexXVII
Prohibited Reduced		四ヨウ化水銀酸銅(II)	27228-67-7	REACH AnnexXVII
Prohibited Reduced		硫化二水銀(I)	51595-71-2	REACH AnnexXVII
Prohibited Reduced		亜硫酸水銀(II)	94238-21-8	REACH AnnexXVII
Prohibited Reduced		亜セレン酸水銀(II)	14459-36-0	REACH AnnexXVII
Prohibited Reduced		硝酸水銀(I)・一水和物	7782-86-7	REACH AnnexXVII
Prohibited Reduced		硫酸水銀	13766-44-4	REACH AnnexXVII
Prohibited Reduced		臭素酸水銀(II)・二水和物	26522-91-8	REACH AnnexXVII
Prohibited Reduced		水酸化フッ化水銀(II)	28953-04-0	REACH AnnexXVII
Prohibited Reduced		ヨウ化水銀(1:?)	37320-91-5	REACH AnnexXVII
Prohibited Reduced		[N-(2-メチルフェニル)ベンゼンスルホンアミダト-N]フェニル水銀	54129-03-2	REACH AnnexXVII
Prohibited Reduced		アルキル水銀化合物	—	REACH AnnexXVII
Prohibited Reduced		メチル水銀化合物	—	REACH AnnexXVII



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited Reduced		クロロメキシプロピル酢酸水銀	1319-86-4	REACH AnnexXVII
Prohibited Reduced		(ヒドロジエンホスファト)ビス(エチル水銀)	2440-45-1	REACH AnnexXVII
Prohibited Reduced		アリル水銀化合物のうち、本リスト上で特定されていない物質	—	REACH AnnexXVII
Observation	Methanaminium, N-[4-[[4-(dimethylamino)phenyl]phenylmethylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride		569-64-2	REACH AnnexXVII
Observation	Naphthalenedisulfonic acid, dinonyl-		60223-95-2	REACH AnnexXVII
Observation	Naphthalenesulfonicacid, dinonyl-, calcium salt (2:1)		57855-77-3	REACH AnnexXVII
Observation	Naphthalenesulfonicacid, dinonyl-		25322-17-2	REACH AnnexXVII
Observation	N-1-naphthylaniline		90-30-2	REACH AnnexXVII
Observation	2,3'-Bis[[[(2-hydroxyphenyl)methylene]amino]but-2-enedinitrilato(2-)-N2,N3,O2,O3]nickel;C.I. Solvent Brown 53		64696-98-6	REACH AnnexXVII
Observation	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, nickel(2+) salt (2:3)		6018-92-4	REACH AnnexXVII
Observation	Di-μ.-carbonylbis(.eta.5-2,4-cyclopentadien-1-yl)dinickel		12170-92-2	REACH AnnexXVII
Observation	Nickel, dichlorobis(triphenylphosphine)-		14264-16-5	REACH AnnexXVII
Observation	Nickel, tetrakis[tris(methylphenyl) phosphite-P]-		35884-66-3	REACH AnnexXVII
Observation	Nickelate(2-), tetrakis(cyano-C)-,disodium, (SP-4-1)-		14038-85-8	REACH AnnexXVII
Observation	Tetrakis(trifluorophosphine)nickel		13859-65-9	REACH AnnexXVII
Observation	Zirconate(2-), hexafluoro-,nickel(2+) (1:1), (OC-6-11)-		30868-55-4	REACH AnnexXVII
Observation	Zirconium alloy, base, Zr 40-82, Ni 18-60		42612-06-6	REACH AnnexXVII
Observation		ニッケル-アルミニウム合金のニッケル母材	12635-29-9	REACH AnnexXVII
Observation		ヘキサアンミンニッケル(II) ニギ酸塩	68758-60-1	REACH AnnexXVII
Observation	Octadecanamine		124-30-1	2017 GADSL
Observation	Octamethyltrisiloxane		107-51-7	2017 GADSL
Observation		ノニルフェノールエトキシラート	—	REACH AnnexXVII
Prohibited		パラ-ジクロロベンゼン	106-46-7	REACH AnnexXVII
Prohibited	PFOS	メタクリル酸2-[エチル[(ヘプタデカフルオロオクチル)スルホニル]アミノ]エチル	376-14-7	POPs
Prohibited	PFOS	メタクリル酸2-[ブチル[(ヘプタデカフルオロオクチル)スルホニル]アミノ]エチル	383-07-3	POPs
Prohibited	PFOS	メタクリル酸2-[N-エチル[(ヘプタデカフルオロオクチル)スルホニル]アミノ]エチル	423-82-5	POPs
Prohibited	PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(2-プロペニル)-1-オクタンスルホンアミド	423-86-9	POPs
Prohibited	PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	754-91-6	POPs
Prohibited	PFOS	N,N,N-トリメチル-3-(ヘプタデカフルオロオクチル)スルホニルアミノ)プロパン-1-アミニウム・ヨーヅド	1652-63-7	POPs
Prohibited	PFOS	N-エチル-N-(2-ヒドロキシエチル)-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	1691-99-2	POPs
Prohibited	PFOS	N-エチル-N-(ヘプタデカフルオロオクチル)スルホニル)グリシンエチル	1869-77-8	POPs

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	PFOS	N,N',N''-[ホスフィニルジントリス(オキシ-2,1-エタンジイル)]トリス(N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド)	2250-98-8	POPs
Prohibited	PFOS	N-ブチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(2-ヒドロキシエチル)-1-オクタンスルホンアミド	2263-09-4	POPs
Prohibited	PFOS	N-エチル-N-(ヘプタデカフルオロオクチルスルホニル)グリシンカリウム	2991-50-6	POPs
Prohibited	PFOS	N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(2-(ホスホノオキシ)エチル)-1-オクタンスルホンアミド	3820-83-5	POPs
Prohibited	PFOS	N-エチル-[(ヘプタデカフルオロオクチルスルホニル)グリシンナトリウム]	3871-50-9	POPs
Prohibited	PFOS	N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	4151-50-2	POPs
Prohibited	PFOS	N-[3-(ジメチルアミノ)プロピル]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	13417-01-1	POPs
Prohibited	PFOS	メタクリル酸2-[(メチル)[(ヘプタデカフルオロオクチルスルホニル)アミノ]エチル]	14650-24-9	POPs
Prohibited	PFOS	N-(2-ヒドロキシエチル)-N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	24448-09-7	POPs
Prohibited	PFOS	N-(2-プロペニル)-N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド	24924-36-5	POPs
Prohibited	PFOS	アクリル酸2-[N-メチル-N-(ヘプタデカフルオロオクチルスルホニル)アミノ]エチル	25268-77-3	POPs
Prohibited	PFOS	オメガ-ヒドロキシ-アルファ-[2-[エチル[(フルオロオクチルスルホニル)アミノ]エチル]-ポリ(オキシ-1,2-エタンジイル)]	29117-08-6	POPs
Prohibited	PFOS	【1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(3-(ジメチルオキシドアミノ)プロピル)-1-オクタンスルホドアミン】	30295-51-3	POPs
Prohibited	PFOS	りん酸アンモニウムビス[2-[エチル(ヘプタデカフルオロオクチルスルホニル)アミノ]エチル]	30381-98-7	POPs
Prohibited	PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-メチル-1-オクタンスルホンアミド	31506-32-8	POPs
Prohibited	PFOS	3-[[[(ヘプタデカフルオロオクチルスルホニル)アミノ]-N,N,N-トリメチル-1-プロパンアミニウム・クロリド]	38006-74-5	POPs
Prohibited	PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(フェニルメチル)-1-オクタンスルホンアミド	50598-29-3	POPs
Prohibited	PFOS	オメガ-ヒドロキシ-アルファ-[2-[[ヘプタデカフルオロオクチルスルホニル]プロピルアミノ]エチル]-ポリ(オキシ-1,2-エタンジイル)]	52550-45-5	POPs
Prohibited	PFOS	2,3,4,5-テトタクロロ-6-[[[3-[[[(ヘプタデカフルオロオクチルスルホニル)オキシ]フェニル]アミノ]カルボニル]安息香酸カリウム]	57589-85-2	POPs
Prohibited	PFOS	プロペン酸4-[[[(ヘプタデカフルオロオクチルスルホニル)メチルアミノ]ブチル]	58920-31-3	POPs
Prohibited	PFOS	2-メチルプロペン酸4-[[[(ヘプタデカフルオロオクチルスルホニル)メチルアミノ]ブチル]	61577-14-8	POPs
Prohibited	PFOS	N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-[3-(トリメトキシシリル)プロピル]-1-オクタンスルホンアミド	61660-12-6	POPs
Prohibited	PFOS	N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-[3-(トリクロロシリル)プロピル]-1-オクタンスルホンアミド	67939-42-8	POPs



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	PFOS	N-[3-(ジメチルアミノ)プロピル]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-1-オクタンスルホンアミド・塩酸塩	67939-88-2	POPs
Prohibited	PFOS	N-エチル-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-[2-(ホスホノオキシ)エチル]-1-オクタンスルホンアミドジアンモニウム	67969-69-1	POPs
Prohibited	PFOS	ビス[2-[エチル(パーフルオロ-C4-8-アルキル)スルホニル]アミノ]エチル]エステル-(4-メチル-1,3-フェニレン)ビス-カルバミン酸	68081-83-4	POPs
Prohibited	PFOS	3-[[ (ヘプタデカフルオロオクチル)スルホニル] (3-スルホナトプロピル)アミノ]-N-(2-ヒドロキシエチル)-N,N-ジメチル-1-プロパンアミニウム	68298-11-3	POPs
Prohibited	PFOS	2-[メチル[(アンデカフルオロペンチル)スルホニル]アミノ]エチル-2-プロピノエイト-オクタデシル-2-プロピノエイト,2-[メチル[(トリデカフルオロヘキシル)スルホニル]アミノ]エチル-2-プロピルエイト,2-[メチル[(ペンタデカフルオロペンチル)スルホニル]アミノ]エチル-2-プロピノエイト,2-[メチル[(ナノフルオロブチル)スルホニル]アミノ]エチル-2-プロピノエイト,ヘキサデシル-2-プロピルエイト,2-[[ (ヘプタデカフルオロオクチル)スルホニル]メチルアミノ]エチル-2-プロピノエイトポリマー,エイコシルエステル,2-プロペン酸	68329-56-6	POPs
Prohibited	PFOS	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデカフルオロ-N-(4-ヒドロキシブチル)-N-メチル-1-オクタンスルホンアミド	68239-73-6	POPs
Prohibited	PFOS	3-[[ (ヘプタデカフルオロオクチル)スルホニル]アミノ]-N,N,N-トリメチル-1-プロパンアミニウム/ヨージド/アンモニア,(1:1:1)	68310-75-8	POPs
Prohibited	PFOS	2-[メチル[(ヘプタデカフルオロオクチル)スルホニル]アミノ]エチル-2-メチル-2-プロピノエイト-オクタデシル-2-プロピノエイトポリマー,2-プロペン酸	68541-80-0	POPs
Prohibited	PFOS	2-[メチル[(トリデカフルオロヘキシル)スルホニル]アミノ]エチル-2-プロピノエイト-2-[メチル[(アンデカフルオロペンチル)スルホニル]アミノ]エチル-2-プロピノエイト,2-[メチル[(ペンタデカフルオロヘプチル)スルホニル]アミノ]エチル-2-プロピルエイト,,2-[メチル[(ナノフルオロブチル)スルホニル]アミノ]エチル-2-プロピノエイト,2-[[ (ヘプタデカフルオロオクチル)スルホニル]メチルアミノ]エチル-2-プロピノエイトポリマー,ブチルエステル,2-プロペン酸	68555-90-8	POPs
Prohibited	PFOS	2-[エチル[(アンデカフルオロヘペンチル)スルホニル]アミノ]エチル-2-メチル-2-プロピノエイト-オクタデシル-2-プロピノエイト,2-[エチル[(トリデカフルオロヘキシル)スルホニル]アミノ]エチル-2-メチル-2-プロピルエイト,2-[メチル[(ペンタデカフルオロブチル)スルホニル]アミノ]エチル-2-メチル-2-プロピノエイト,2-[エチル[(ナノフルオロブチル)スルホニル]アミノ]-エチル-2-メチル-2-プロピノエイトポリマー,2-[エチル[(ヘプタデカフルオロオクチル)スルホニル]アミノ]エチルエステル2-メチル-,2-プロペン酸	68555-91-9	POPs
Prohibited	PFOS	2-[メチル[(アンデカフルオロヘペンチル)スルホニル]アミノ]エチル-2-メチル-2-プロピノエイト-オクタデシル-2-メチル-2-プロピノエイト,2-[メチル[(トリデカフルオロヘキシル)スルホニル]アミノ]エチル-2-メチル-2-プロピルエイト,2-[メチル[(ペンタデカフルオロブチル)スルホニル]アミノ]エチル-2-メチル-2-プロピノエイト,2-[エチル[(ナノフルオロブチル)スルホニル]アミノ]-エチル-2-メチル-2-プロピノエイトポリマー,2-[エチル[(ヘプタデカフルオロオクチル)スルホニル]アミノ]エチルエステル2-メチル-,2-プロペン酸	68555-92-0	POPs
Prohibited	PFOS	1,1-メチレンビス[4-イソシサン酸ベンゼン]反応生成物,N-エチル-N-(ヒドロキシエチル),パーフルオロ,C4-8-アルカン,スルホンアミド	68608-14-0	POPs

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	PFOS	ポリメチレンポリフェニレンイソシアン酸 ステアリルアルコール,N-エチル- 1,1,2,2,2,3,3,4,4,5,5,5,-アンデカフルオロ -N-(2-ヒドロキシエチル)-1-ペンタンス ルホンアミド,N-エチル- 1,1,2,2,3,3,4,4,5,5,6,6,6-トリデカフルオ ロ-N-(2-ヒドロキシエチル)-1-ヘキサ ンスルホンアミド,N-エチル- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-ペンタデカフ ルオロ-N-(2-ヒドロキシエチル)-1-ヘ プタンスルホンアミド,N-エチル- 1,1,2,2,3,3,4,4,4-ナノフルオロ-n-(2-ヒ ドロキシエチル)-1-ブタンスルホンアミド 反応生成物,N-エチル- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-ヘプタデ カフルオロ-N-(2-ヒドロキシエチル)-1- オクタンスルホンアミド	68649-26-3	POPs
Prohibited	PFOS	2-[メチル[(アンデカフルオロヘペンチ ル)スルホニル]アミノ]エチル-アルファー (1-オキソ-2-プロペニル-オメガ-メトキ シポリ(オキシ-1,2-エタンジイル),2-[メ チル[(トリデカフルオロヘキシル)スルホ ニル]アミノ]エチル-2-メチル-2-プロピ ルエイト,2-[メチル[(ペンタデカフルオロ ブチル)スルホニル]アミノ]エチル-2-メ チル-2-プロピノエイト,2-[エチル[(ナ ノフルオロブチル)スルホニル]アミノ]-エ チル-2-メチル-2-プロペノエイトポリ マー,2-[エチル[(ヘプタデカフルオロオ クチル)スルホニル]アミノ]エチルエステ ル,2-プロペン酸	68867-60-7	POPs
Prohibited	PFOS	2-[メチル[(アンデカフルオロヘペンチ ル)スルホニル]アミノ]エチル-2-メチル -2-プロペニル-2-メチル-1,3-ブタジエ ン,2-[メチル[(トリデカフルオロヘキシ ル)スルホニル]アミノ]エチル-2-メチル -2-プロピルエイト,2-[メチル[(ペンタデ カフルオロブチル)スルホニル]アミノ]エ チル-2-メチル-2-プロピノエイト,2-[エ チル[(ナノフルオロブチル)スルホニル] アミノ]-エチル-2-メチル-2-プロペノエ イトポリマー,2-[エチル[(ヘプタデカフル オロオクチル)スルホニル]アミノ]エチル エステル,2-メチル-2-プロペン酸	68877-32-7	POPs
Prohibited	PFOS	ジアクアテトラクロロ[.mu-[N-エチル- N-[(ヘプタデカフルオロオクチル)スル ホニル]グリシナト-.kappa.O:kappa.O']] -.mu.-ヒドロキシビス(2-メチルプロパ ノール)ジークロム	68891-96-3	POPs
Prohibited	PFOS		68909-15-9	POPs
Prohibited	PFOS		68958-61-2	POPs
Prohibited	PFOS		70776-36-2	POPs
Prohibited	PFOS		71463-78-0	POPs
Prohibited	PFOS		71463-80-4	POPs
Prohibited	PFOS		71487-20-2	POPs
Prohibited	PFOS		91081-99-1	POPs
Prohibited	PFOS		92265-81-1	POPs
Prohibited	PFOS		94133-90-1	POPs
Prohibited	PFOS		94313-84-5	POPs
Prohibited	PFOS		98999-57-6	POPs
Prohibited	PFOS		127133-66-8	POPs
Prohibited	PFOS		129813-71-4	POPs
Prohibited	PFOS		148240-78-2	POPs
Prohibited	PFOS		148684-79-1	POPs
Prohibited	PFOS		160901-25-7	POPs
Prohibited	PFOS		178094-69-4	POPs
Prohibited	PFOS		178535-22-3	POPs
Prohibited	PFOS		182700-90-9	POPs



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	PFOS		192662-29-6	POPs
Prohibited	PFOS		251099-16-8	POPs
Prohibited	PFOS		306973-46-6	POPs
Prohibited	PFOS		306973-47-7	POPs
Prohibited	PFOS		306974-19-6	POPs
Prohibited	PFOS		306974-28-7	POPs
Prohibited	PFOS		306974-45-8	POPs
Prohibited	PFOS		306974-63-0	POPs
Prohibited	PFOS		306975-56-4	POPs
Prohibited	PFOS		306975-57-5	POPs
Prohibited	PFOS		306975-84-8	POPs
Prohibited	PFOS		306975-85-9	POPs
Prohibited	PFOS		306976-25-0	POPs
Prohibited	PFOS		306975-55-6	POPs
Prohibited	PFOS		306977-58-2	POPs
Prohibited	PFOS		306978-04-1	POPs
Prohibited	PFOS		306978-65-4	POPs
Prohibited	PFOS		306979-40-8	POPs
Prohibited	PFOS		306980-27-8	POPs
Prohibited	PFOS	ナトリウム=ペルフルオロオクタンスルホナート	4021-47-0	The Chemical Substances Control Law (Class I)
Prohibited	PFOS	ペルフルオロ(オクタン-1-スルホン酸)又はその塩	—	The Chemical Substances Control Law (Class I)
Prohibited	PFOS	ペルフルオロ(オクタン-1-スルホン酸)(別名PFOS)又はその塩	71463-74-6	The Chemical Substances Control Law (Class I)
Prohibited	PFOS	ペルフルオロ(オクタン-1-スルホン酸)(別名PFOS)又はその塩	91036-71-4	The Chemical Substances Control Law (Class I)
Observation	Phenol, 2,4-bis(1,1-dimethylethyl)-		96-76-4	2017 GADSL
Observation	Phenol, 2,6-bis(1,1-dimethylethyl)-		128-39-2	2017 GADSL
Observation	Phenol, 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)- (UV-234)		70321-86-7	2017 GADSL
Observation	Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)- (UV 329)		3147-75-9	2017 GADSL
Observation	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene		68610-51-5	2017 GADSL
Observation	Phenol, 4,4',4''-(1-methyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-		1843-03-4	2017 GADSL
Observation	Phenol, styrenated		61788-44-1	2017 GADSL
Observation	Phosphoric acid, bis[(1,1-dimethylethyl)phenyl] phenyl ester		65652-41-7	2017 GADSL
Observation	Phosphoric acid,(1,1-dimethylethyl)phenyl diphenyl ester		56803-37-3	2017 GADSL
Observation	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-propyl) esters, zinc salts		84605-29-8	2017 GADSL
Observation	Phosphorodithioic acid,mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts		85940-28-9	2017 GADSL
Observation	Phosphorodithioic acid,mixed O,O-bis(iso-butyl and pentyl) esters, zinc salts		68457-79-4	2017 GADSL

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Phosphorodithioic acid, mixed O,O-bis(sec-butyl and isoctyl) esters, zinc salts		113706-15-3	2017 GADSL
Observation	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts		68649-42-3	2017 GADSL
Prohibited		N,N'-ジトリル-パラ-フェニレンジアミン、N-トリル-N'-キシリル-パラ-フェニレンジアミン又はN,N'-ジキシリル-パラ-フェニレンジアミン	620-91-7	The Chemical Substances Control Law (Class I)
Observation	Phthalic anhydride		85-44-9	2017 GADSL
Observation	Piperidine, 1,1'-(tetrathiodicarbonothioyl)bis-		120-54-7	2017 GADSL
Observation		フタル酸ジイソオクチル (DIOP)	27554-26-3	REACH AnnexXVII
Observation		ビス(2-エチルヘキシル)フタラート、ジブチルフタラート、ベンジルブチルフタラート	—	REACH AnnexXVII
Observation		ジ-イソノニルフタラート、ジ-イソデシルフタラート、ジ-n-オクチルフタラート	—	REACH AnnexXVII
Prohibited	2,2',4,4',5,5'-Hexabromodiphenyl ether		68631-49-2	POPs
Prohibited	2,2',4,4',5,6'-hexabromodiphenyl ether		207122-15-4	POPs
Prohibited	2,2',3,3',4,5',6-heptabromodiphenyl ether		446255-22-7	POPs
Prohibited	2,2',3,4,4',5',6-Heptabromodiphenyl ether		207122-16-5	POPs
Prohibited	2,2',4,4'-tetrabromodiphenyl ether	テトラブロモジフェニルエーテル	5436-43-1	POPs
Prohibited	2,2',4,4',5-Pentabromodiphenyl ether		60348-60-9	POPs
Prohibited	hexabromobiphenyl	ヘキサブロモビフェニル	61792-22-1	POPs
Prohibited	Diphenylether, octabromo derivative C <sub>12</sub> H <sub>2</sub> Br <sub>8</sub> O	ジフェニルエーテルオクタブロモ誘導体	—	POPs
Prohibited	3,3'-Dichlorodiphenyl	3, 3' -ジクロロビフェニル	2050-67-1	POPs
Prohibited		4, 4' -ジクロロビフェニル	2050-68-2	POPs
Prohibited		2, 2', 3, 3', 4, 4', 5, 5', 6, 6' -デカクロロビフェニル	2051-24-3	POPs
Prohibited		2-クロロビフェニル	2051-60-7	POPs
Prohibited		3-クロロビフェニル	2051-61-8	POPs
Prohibited		4-クロロビフェニル	2051-62-9	POPs
Prohibited		2, 2', 3, 3', 5, 5', 6, 6' -オクタクロロビフェニル	2136-99-4	POPs
Prohibited		3, 4' -ジクロロビフェニル	2974-90-5	POPs
Prohibited		3, 4-ジクロロビフェニル	7012-37-5	POPs
Prohibited		2, 2' -ジクロロビフェニル	13029-08-8	POPs
Prohibited		2, 4, 5-トリクロロビフェニル	15862-07-4	POPs
Prohibited		2, 2', 6, 6' -テトラクロロビフェニル	15968-05-5	POPs
Prohibited		2, 3-ジクロロビフェニル	16605-91-7	POPs
Prohibited		2, 3, 4, 5, 6-ペンタクロロビフェニル	18259-05-7	POPs
Prohibited		トリクロロビフェニル	25323-68-6	POPs
Prohibited		2, 3' -ジクロロビフェニル	25569-80-6	POPs
Prohibited		ヘキサクロロビフェニル	26601-64-9	POPs
Prohibited		テトラクロロビフェニル	26914-33-0	POPs
Prohibited		ar, ar, ar-トリクロロビフェニル	30605-61-9	POPs
Prohibited		2, 3', 4, 4', 5-ペンタクロロビフェニル	31508-00-6	POPs
Prohibited		2, 3', 4, 4' -テトラクロロビフェニル	32598-10-0	POPs
Prohibited		2, 3', 4', 5-テトラクロロビフェニル	32598-11-1	POPs



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		2, 4, 4', 6-テトラクロロビフェニル	32598-12-2	POPs
Prohibited		2, 3, 3', 4, 4'-ペンタクロロビフェニル	32598-14-4	POPs
Prohibited		2, 4, 4', 5-テトラクロロビフェニル	32690-93-0	POPs
Prohibited		2, 3, 4, 4'-テトラクロロビフェニル	33025-41-1	POPs
Prohibited		ar, ar'-ジクロロビフェニル	33039-81-5	POPs
Prohibited		2, 2', 3, 3', 4, 4', 6, 6'-オクタクロロビフェニル	33091-17-7	POPs
Prohibited		2, 6-ジクロロビフェニル	33146-45-1	POPs
Prohibited		2, 4-ジクロロビフェニル	33284-50-3	POPs
Prohibited		3, 3', 5, 5'-テトラクロロビフェニル	33284-52-5	POPs
Prohibited		2, 3, 4, 5-テトラクロロビフェニル	33284-53-6	POPs
Prohibited		2, 3, 5, 6-テトラクロロビフェニル	33284-54-7	POPs
Prohibited		2, 5-ジクロロビフェニル	34883-39-1	POPs
Prohibited		3, 5-ジクロロビフェニル	34883-41-5	POPs
Prohibited		2, 4'-ジクロロビフェニル	34883-43-7	POPs
Prohibited		2, 2', 3, 4, 4', 5'-ヘキサクロロビフェニル	35065-28-2	POPs
Prohibited		2, 2', 3, 4, 4', 5, 5'-ヘプタクロロビフェニル	35065-29-3	POPs
Prohibited		2, 2', 3, 3', 4, 4', 5-ヘプタクロロビフェニル	35065-30-6	POPs
Prohibited		2, 4, 6-トリクロロビフェニル	35693-92-6	POPs
Prohibited		2, 2', 5, 5'-テトラクロロビフェニル	35693-99-3	POPs
Prohibited		2, 2', 3, 3', 5, 5'-ヘキサクロロビフェニル	35694-04-3	POPs
Prohibited		2, 2', 3, 4, 4', 5-ヘキサクロロビフェニル	35694-06-5	POPs
Prohibited		2, 2', 3, 3', 4, 4', 5, 5'-オクタクロロビフェニル	35694-08-7	POPs
Prohibited		2, 2', 3, 4'-テトラクロロビフェニル	36559-22-5	POPs
Prohibited		2, 2', 5-トリクロロビフェニル	37680-65-2	POPs
Prohibited		2, 2', 4-トリクロロビフェニル	37680-66-3	POPs
Prohibited		2, 3', 5'-トリクロロビフェニル	37680-68-5	POPs
Prohibited		3, 3', 4-トリクロロビフェニル	37680-69-6	POPs
Prohibited		2, 2', 4, 5, 5'-ペンタクロロビフェニル	37680-73-2	POPs
Prohibited		2, 2', 3, 5', 6-ペンタクロロビフェニル	38379-99-6	POPs
Prohibited		2, 2', 4, 4', 5-ペンタクロロビフェニル	38380-01-7	POPs
Prohibited		2, 2', 3, 4, 5'-ペンタクロロビフェニル	38380-02-8	POPs
Prohibited		2, 3, 3', 4', 6-ペンタクロロビフェニル	38380-03-9	POPs
Prohibited		2, 2', 3, 4', 5', 6-ヘキサクロロビフェニル	38380-04-0	POPs
Prohibited		2, 2', 3, 3', 4, 6'-ヘキサクロロビフェニル	38380-05-1	POPs
Prohibited		2, 2', 3, 3', 4, 4'-ヘキサクロロビフェニル	38380-07-3	POPs
Prohibited		2, 3, 3', 4, 4', 5-ヘキサクロロビフェニル	38380-08-4	POPs
Prohibited		2, 2', 3, 3', 6, 6'-ヘキサクロロビフェニル	38411-22-2	POPs

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		2, 2', 3, 3', 4, 5, 6' -ヘプタクロロビフェニル	38411-25-5	POPs
Prohibited		2, 2', 6-トリクロロビフェニル	38444-73-4	POPs
Prohibited		2, 3', 6-トリクロロビフェニル	38444-76-7	POPs
Prohibited		2, 4', 6-トリクロロビフェニル	38444-77-8	POPs
Prohibited		2, 2', 3-トリクロロビフェニル	38444-78-9	POPs
Prohibited		2, 3', 5-トリクロロビフェニル	38444-81-4	POPs
Prohibited		2, 3, 3' -トリクロロビフェニル	38444-84-7	POPs
Prohibited		2, 3, 4' -トリクロロビフェニル	38444-85-8	POPs
Prohibited		2', 3, 4-トリクロロビフェニル	38444-86-9	POPs
Prohibited		3, 3', 5-トリクロロビフェニル	38444-87-0	POPs
Prohibited		3, 4', 5-トリクロロビフェニル	38444-88-1	POPs
Prohibited		3, 4, 4' -トリクロロビフェニル	38444-90-5	POPs
Prohibited		2, 2', 3, 3' -テトラクロロビフェニル	38444-93-8	POPs
Prohibited		2, 2', 4, 4', 6-ペンタクロロビフェニル	39485-83-1	POPs
Prohibited		2, 3, 3', 4, 4', 5, 5' -ヘプタクロロビフェニル	39635-31-9	POPs
Prohibited		2, 3, 3', 5, 5' -ペンタクロロビフェニル	39635-32-0	POPs
Prohibited		3, 3', 4, 5, 5' -ペンタクロロビフェニル	39635-33-1	POPs
Prohibited		2, 3, 3', 4', 5, 5' -ヘキサクロロビフェニル	39635-34-2	POPs
Prohibited		2, 3, 3', 4, 5, 5' -ヘキサクロロビフェニル	39635-35-3	POPs
Prohibited		2, 2', 3, 3', 4, 5', 6-ヘプタクロロビフェニル	40186-70-7	POPs
Prohibited		2, 2', 3, 3', 4, 5', 6, 6' -オクタクロロビフェニル	40186-71-8	POPs
Prohibited		2, 2', 3, 3', 4, 4', 5, 5', 6-ノナクロロビフェニル	40186-72-9	POPs
Prohibited		2, 2', 3, 4, 5, 6-ヘキサクロロビフェニル	41411-61-4	POPs
Prohibited		2, 3, 3', 4, 5, 6-ヘキサクロロビフェニル	41411-62-5	POPs
Prohibited		2, 3, 4, 4', 5, 6-ヘキサクロロビフェニル	41411-63-6	POPs
Prohibited		2, 3, 3', 4, 4', 5, 6-ヘプタクロロビフェニル	41411-64-7	POPs
Prohibited		2, 2', 3, 5' -テトラクロロビフェニル	41464-39-5	POPs
Prohibited		2, 2', 4, 5' -テトラクロロビフェニル	41464-40-8	POPs
Prohibited		2, 2', 5, 6' -テトラクロロビフェニル	41464-41-9	POPs
Prohibited		2, 3', 5, 5' -テトラクロロビフェニル	41464-42-0	POPs
Prohibited		2, 3, 3', 4' -テトラクロロビフェニル	41464-43-1	POPs
Prohibited		2, 3', 4', 6-テトラクロロビフェニル	41464-46-4	POPs
Prohibited		2, 2', 3, 6' -テトラクロロビフェニル	41464-47-5	POPs
Prohibited		3, 3', 4, 5' -テトラクロロビフェニル	41464-48-6	POPs
Prohibited		2, 3, 3', 5' -テトラクロロビフェニル	41464-49-7	POPs
Prohibited		2, 2', 3, 4', 5' -ペンタクロロビフェニル	41464-51-1	POPs
Prohibited		2, 2', 3, 3', 4, 4', 5, 6' -オクタクロロビフェニル	42740-50-1	POPs



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		2, 2', 3, 4', 5, 5' -ヘキサクロロビフェニル	51908-16-8	POPs
Prohibited		2, 3, 4', 6-テトラクロロビフェニル	52663-58-8	POPs
Prohibited		2, 2', 3, 4-テトラクロロビフェニル	52663-59-9	POPs
Prohibited		2, 2', 3, 3', 6-ペンタクロロビフェニル	52663-60-2	POPs
Prohibited		2, 2', 3, 5, 5' -ペンタクロロビフェニル	52663-62-4	POPs
Prohibited		2, 2', 3, 5, 5', 6-ヘキサクロロビフェニル	52663-63-5	POPs
Prohibited		2, 2', 3, 3', 5, 6, 6' -ヘプタクロロビフェニル	52663-64-6	POPs
Prohibited		2, 2', 3, 3', 4, 6, 6' -ヘプタクロロビフェニル	52663-65-7	POPs
Prohibited		2, 2', 3, 3', 4, 5' -ヘキサクロロビフェニル	52663-66-8	POPs
Prohibited		2, 2', 3, 3', 5, 5', 6-ヘプタクロロビフェニル	52663-67-9	POPs
Prohibited		2, 2', 3, 4', 5, 5', 6-ヘプタクロロビフェニル	52663-68-0	POPs
Prohibited		2, 2', 3, 4, 4', 5', 6-ヘプタクロロビフェニル	52663-69-1	POPs
Prohibited		2, 2', 3, 3', 4, 5', 6' -ヘプタクロロビフェニル	52663-70-4	POPs
Prohibited		2, 2', 3, 3', 4, 4', 6-ヘプタクロロビフェニル	52663-71-5	POPs
Prohibited		2, 2', 3, 3', 4, 5, 6, 6' -オクタクロロビフェニル	52663-73-7	POPs
Prohibited		2, 2', 3, 3', 4, 5, 5' -ヘプタクロロビフェニル	52663-74-8	POPs
Prohibited		2, 2', 3, 3', 4, 5, 5', 6' -オクタクロロビフェニル	52663-75-9	POPs
Prohibited		2, 2', 3, 4, 4', 5, 5', 6-オクタクロロビフェニル	52663-76-0	POPs
Prohibited		2, 2', 3, 3', 4, 5, 5', 6, 6' -ノナクロロビフェニル	52663-77-1	POPs
Prohibited		2, 2', 3, 3', 4, 4', 5, 6-オクタクロロビフェニル	52663-78-2	POPs
Prohibited		2, 2', 3, 3', 4, 4', 5, 6, 6' -ノナクロロビフェニル	52663-79-3	POPs
Prohibited		2, 2', 3, 3', 5, 6-ヘキサクロロビフェニル	52704-70-8	POPs
Prohibited		2, 2', 3, 4, 5, 5' -ヘキサクロロビフェニル	52712-04-6	POPs
Prohibited		2, 2', 3, 4, 5, 5', 6-ヘプタクロロビフェニル	52712-05-7	POPs
Prohibited		2, 2', 3, 3', 5, 6' -ヘキサクロロビフェニル	52744-13-5	POPs
Prohibited		3, 4, 5-トリクロロビフェニル	53555-66-1	POPs
Prohibited		2, 3, 4, 6-テトラクロロビフェニル	54230-22-7	POPs
Prohibited		(±)-2, 2', 3, 4, 6-ペンタクロロビフェニル	55215-17-3	POPs
Prohibited		2, 2', 3, 3', 4, 5-ヘキサクロロビフェニル	55215-18-4	POPs
Prohibited		2, 2', 3, 4, 5-ペンタクロロビフェニル	55312-69-1	POPs
Prohibited		2, 3, 6-トリクロロビフェニル	55702-45-9	POPs
Prohibited		2, 3, 4-トリクロロビフェニル	55702-46-0	POPs
Prohibited		2, 3', 4-トリクロロビフェニル	55712-37-3	POPs

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		2, 3, 5-トリクロロビフェニル	55720-44-0	POPs
Prohibited		オクタクロロビフェニル	55722-26-4	POPs
Prohibited		(±)-2, 2', 3, 4, 4', 6-ヘキサクロロビフェニル	56030-56-9	POPs
Prohibited		2, 2', 4, 6, 6'-ペンタクロロビフェニル	56558-16-8	POPs
Prohibited		2, 3', 4, 4', 6-ペンタクロロビフェニル	56558-17-9	POPs
Prohibited		2, 3', 4, 5', 6-ペンタクロロビフェニル	56558-18-0	POPs
Prohibited		3, 3', 4, 4', 5-ペンタクロロビフェニル	57465-28-8	POPs
Prohibited		2, 2', 3, 4, 4', 6'-ヘキサクロロビフェニル	59291-64-4	POPs
Prohibited		2, 3', 4, 4', 5', 6-ヘキサクロロビフェニル	59291-65-5	POPs
Prohibited		2, 2', 3, 3', 5-ペンタクロロビフェニル	60145-20-2	POPs
Prohibited		2, 2', 4, 5', 6-ペンタクロロビフェニル	60145-21-3	POPs
Prohibited		2, 2', 4, 4', 5, 6'-ヘキサクロロビフェニル	60145-22-4	POPs
Prohibited		2, 2', 3, 4, 4', 5, 6'-ヘプタクロロビフェニル	60145-23-5	POPs
Prohibited		2, 3', 4, 6-テトラクロロビフェニル	60233-24-1	POPs
Prohibited		2, 2', 3, 4', 6'-ペンタクロロビフェニル	60233-25-2	POPs
Prohibited		2, 2', 3, 3', 4, 6-ヘキサクロロビフェニル	61798-70-7	POPs
Prohibited		2, 4, 4' (又は3, 4, 4')-トリクロロビフェニル	62461-62-5	POPs
Prohibited		2, 2', 4, 6-テトラクロロビフェニル	62796-65-0	POPs
Prohibited		2, 3', 4, 4', 5'-ペンタクロロビフェニル	65510-44-4	POPs
Prohibited		2, 2', 3, 4, 4'-ペンタクロロビフェニル	65510-45-4	POPs
Prohibited		2, 2', 4, 6'-テトラクロロビフェニル	68194-04-7	POPs
Prohibited		2, 2', 3, 4', 6-ペンタクロロビフェニル	68194-05-8	POPs
Prohibited		2, 2', 4, 5, 6'-ペンタクロロビフェニル	68194-06-9	POPs
Prohibited		2, 2', 3, 4', 5-ペンタクロロビフェニル	68194-07-0	POPs
Prohibited		2, 2', 3, 4', 6, 6'-ヘキサクロロビフェニル	68194-08-1	POPs
Prohibited		2, 2', 3, 5, 6, 6'-ヘキサクロロビフェニル	68194-09-2	POPs
Prohibited		2, 3, 3', 5', 6-ペンタクロロビフェニル	68194-10-5	POPs
Prohibited		2, 3, 4', 5, 6-ペンタクロロビフェニル	68194-11-6	POPs
Prohibited		2, 3', 4, 5, 5'-ペンタクロロビフェニル	68194-12-7	POPs
Prohibited		2, 2', 3, 4', 5, 6-ヘキサクロロビフェニル	68194-13-8	POPs
Prohibited		2, 2', 3, 4, 5', 6-ヘキサクロロビフェニル	68194-14-9	POPs
Prohibited		2, 2', 3, 4, 5, 6'-ヘキサクロロビフェニル	68194-15-0	POPs
Prohibited		2, 2', 3, 3', 4, 5, 6-ヘプタクロロビフェニル	68194-16-1	POPs
Prohibited		2, 2', 3, 3', 4, 5, 5', 6-オクタクロロビフェニル	68194-17-2	POPs
Prohibited		2, 3, 3', 4, 4', 5'-ヘキサクロロビフェニル	69782-90-7	POPs



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		2, 3, 3', 4', 5, 5', 6-ヘプタクロロビフェニル	69782-91-8	POPs
Prohibited		2, 3, 3', 4, 5'-ペンタクロロビフェニル	70362-41-3	POPs
Prohibited		2, 2', 3, 6-テトラクロロビフェニル	70362-45-7	POPs
Prohibited		2, 2', 3, 5-テトラクロロビフェニル	70362-46-8	POPs
Prohibited		2, 2', 4, 5-テトラクロロビフェニル	70362-47-9	POPs
Prohibited		2, 3', 4', 5'-テトラクロロビフェニル	70362-48-0	POPs
Prohibited		3, 3', 4, 5-テトラクロロビフェニル	70362-49-1	POPs
Prohibited		3, 4, 4', 5-テトラクロロビフェニル	70362-50-4	POPs
Prohibited		2, 3, 3', 5-テトラクロロビフェニル	70424-67-8	POPs
Prohibited		2, 3, 3', 4', 5-ペンタクロロビフェニル	70424-68-9	POPs
Prohibited		2, 3, 3', 4, 5-ペンタクロロビフェニル	70424-69-0	POPs
Prohibited		2, 3', 4', 5, 5'-ペンタクロロビフェニル	70424-70-3	POPs
Prohibited		2, 3', 4, 5'-テトラクロロビフェニル	73575-52-7	POPs
Prohibited		2, 3', 4, 5-テトラクロロビフェニル	73575-53-8	POPs
Prohibited		2, 2', 3, 6, 6'-ペンタクロロビフェニル	73575-54-9	POPs
Prohibited		2, 2', 3, 5, 6'-ペンタクロロビフェニル	73575-55-0	POPs
Prohibited		2, 2', 3, 5, 6-ペンタクロロビフェニル	73575-56-1	POPs
Prohibited		2, 2', 3, 4, 6'-ペンタクロロビフェニル	73575-57-2	POPs
Prohibited		2, 3', 5', 6-テトラクロロビフェニル	74338-23-1	POPs
Prohibited		2, 3, 3', 4-テトラクロロビフェニル	74338-24-2	POPs
Prohibited		2, 3, 3', 6-テトラクロロビフェニル	74472-24-2	POPs
Prohibited		2, 3, 4', 5-テトラクロロビフェニル	74472-34-7	POPs
Prohibited		2, 3, 3', 4, 6-ペンタクロロビフェニル	74472-35-8	POPs
Prohibited		2, 3, 3', 5, 6-ペンタクロロビフェニル	74472-36-9	POPs
Prohibited		2, 3, 4, 4', 5-ペンタクロロビフェニル	74472-37-0	POPs
Prohibited		2, 3, 4, 4', 6-ペンタクロロビフェニル	74472-38-1	POPs
Prohibited		2, 3', 4', 5', 6-ペンタクロロビフェニル	74472-39-2	POPs
Prohibited		2, 2', 3, 4, 6, 6'-ヘキサクロロビフェニル	74472-40-5	POPs
Prohibited		2, 2', 3, 4', 5, 6'-ヘキサクロロビフェニル	74472-41-6	POPs
Prohibited		2, 3, 3', 4, 4', 6-ヘキサクロロビフェニル	74472-42-7	POPs
Prohibited		2, 3, 3', 4, 5', 6-ヘキサクロロビフェニル	74472-43-8	POPs
Prohibited		2, 3, 3', 4', 5, 6-ヘキサクロロビフェニル	74472-44-9	POPs
Prohibited		2, 3, 3', 4', 5', 6-ヘキサクロロビフェニル	74472-45-0	POPs
Prohibited		2, 3, 3', 5, 5', 6-ヘキサクロロビフェニル	74472-46-1	POPs
Prohibited		2, 2', 3, 4, 4', 5, 6-ヘプタクロロビフェニル	74472-47-2	POPs
Prohibited		2, 2', 3, 4, 4', 6, 6'-ヘプタクロロビフェニル	74472-48-3	POPs
Prohibited		2, 2', 3, 4, 5, 6, 6'-ヘプタクロロビフェニル	74472-49-4	POPs

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		2, 3, 3', 4, 4', 5', 6-ヘプタクロロビフェニル	74472-50-7	POPs
Prohibited		2, 3, 3', 4, 5, 5', 6-ヘプタクロロビフェニル	74472-51-8	POPs
Prohibited		2, 2', 3, 4, 4', 5, 6, 6'-オクタクロロビフェニル	74472-52-9	POPs
Prohibited		2, 3, 3', 4, 4', 5, 5', 6-オクタクロロビフェニル	74472-53-0	POPs
Prohibited		2, 2', 3, 4', 5, 6, 6'-ヘプタクロロビフェニル	74487-85-7	POPs
Prohibited		2, 3, 3', 4', 5'-ペンタクロロビフェニル	76842-07-4	POPs
Prohibited		2, 4', ?-トリクロロビフェニル	94487-00-0	POPs
Prohibited		2, 3, ?' (又は3, 4, ?')-トリクロロビフェニル	97122-18-4	POPs
Prohibited		2, 4, ?' (2, 6, ?' 又は3, 5, ?')-トリクロロビフェニル	97122-20-8	POPs
Prohibited		(+)-2, 2', 3, 4, 6-ペンタクロロビフェニル	99554-10-6	POPs
Prohibited		(-)-2, 2', 3, 4, 6-ペンタクロロビフェニル	99554-11-7	POPs
Prohibited		(+)-2, 2', 3, 4, 4', 6-ヘキサクロロビフェニル	99554-12-8	POPs
Prohibited		(-)-2, 2', 3, 4, 4', 6-ヘキサクロロビフェニル	99554-13-9	POPs
Prohibited		2, 2', 3, 4, 4', 5 (又は2, 2', 3, 4, 4', 5')-ヘキサクロロビフェニル	108145-39-7	POPs
Prohibited		(R)-2, 2', 3, 3', 4, 4', 6, 6'-オクタクロロビフェニル	109328-45-2	POPs
Prohibited		(S)-2, 2', 3, 3', 4, 4', 6, 6'-オクタクロロビフェニル	109328-46-3	POPs
Prohibited		2, 2', 3, 6, 6', ?-ヘキサクロロビフェニル	111276-74-5	POPs
Prohibited		2, 4, 4', ?, ?-ペンタクロロビフェニル	111276-75-6	POPs
Prohibited		2, 2', 6', ?, ?-ペンタクロロビフェニル	111276-76-7	POPs
Prohibited		2, 2', 5, 6', ?, ?-ヘキサクロロビフェニル	111276-77-8	POPs
Prohibited		2, ?, ?-トリクロロビフェニル	111276-78-9	POPs
Prohibited		4, 4', ?, ?, ?, ?-ヘキサクロロビフェニル	111276-79-0	POPs
Prohibited		2, 2', 5, 6', ?, ?, ?-ヘプタクロロビフェニル	111276-80-3	POPs
Prohibited		4, 4', ?, ?, ?-ペンタクロロビフェニル	111276-81-4	POPs
Prohibited		2, 3, 3', 4, 4', 5, 5', ?-オクタクロロビフェニル	111276-82-5	POPs
Prohibited		2, 2', 5, 6', ?, ?, ?, ?-オクタクロロビフェニル	111276-83-6	POPs
Prohibited		(+)-2, 2', 3, 6-テトラクロロビフェニル	151262-31-6	POPs
Prohibited		(-)-2, 2', 3, 6-テトラクロロビフェニル	151262-32-7	POPs
Prohibited		(+)-2, 2', 3, 5', 6-ペンタクロロビフェニル	151262-34-9	POPs
Prohibited		(-)-2, 2', 3, 5', 6-ペンタクロロビフェニル	151262-35-0	POPs
Prohibited		(S)-2, 2', 3, 3', 6-ペンタクロロビフェニル	153153-43-6	POPs
Prohibited		(R)-2, 2', 3, 3', 6-ペンタクロロビフェニル	153153-44-7	POPs



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		(S)-2, 2', 3, 4', 6-ペンタクロロビフェニル	153153-45-8	POPs
Prohibited		(R)-2, 2', 3, 4', 6-ペンタクロロビフェニル	153153-46-9	POPs
Prohibited		(S)-2, 2', 3, 3', 4, 6'-ヘキサクロロビフェニル	153153-47-0	POPs
Prohibited		(R)-2, 2', 3, 3', 4, 6'-ヘキサクロロビフェニル	153153-48-1	POPs
Prohibited		(S)-2, 2', 3, 3', 6, 6'-ヘキサクロロビフェニル	153153-49-2	POPs
Prohibited		(R)-2, 2', 3, 3', 6, 6'-ヘキサクロロビフェニル	153153-50-5	POPs
Prohibited		(R)-2, 2', 3, 4', 5', 6-ヘキサクロロビフェニル	159000-96-1	POPs
Prohibited		(S)-2, 2', 3, 4', 5', 6-ヘキサクロロビフェニル	159000-97-2	POPs
Prohibited		(R)-2, 2', 3, 3', 4, 4', 6-ヘプタクロロビフェニル	176914-46-8	POPs
Prohibited		(R)-2, 2', 3, 4, 4', 5', 6-ヘプタクロロビフェニル	176914-47-9	POPs
Prohibited		(S)-2, 2', 3, 3', 4, 4', 6-ヘプタクロロビフェニル	176914-48-0	POPs
Prohibited		(S)-2, 2', 3, 4, 4', 5', 6-ヘプタクロロビフェニル	176914-49-1	POPs
Prohibited		(R)-2, 2', 3, 3', 4, 4', 5, 6'-オクタクロロビフェニル	177020-15-4	POPs
Prohibited		(S)-2, 2', 3, 3', 4, 4', 5, 6'-オクタクロロビフェニル	177020-16-5	POPs
Prohibited		(R)-2, 2', 3, 3', 4, 6-ヘキサクロロビフェニル	179678-26-3	POPs
Prohibited		(S)-2, 2', 3, 3', 4, 6-ヘキサクロロビフェニル	179678-27-4	POPs
Prohibited		(R)-2, 2', 3, 3', 4, 5, 6'-ヘプタクロロビフェニル	179678-28-5	POPs
Prohibited		(S)-2, 2', 3, 3', 4, 5, 6'-ヘプタクロロビフェニル	179678-29-6	POPs
Prohibited		(R)-2, 2', 3, 3', 4, 5', 6-ヘプタクロロビフェニル	179678-30-9	POPs
Prohibited		(S)-2, 2', 3, 3', 4, 5', 6-ヘプタクロロビフェニル	179678-31-0	POPs
Prohibited		(R)-2, 2', 3, 3', 4, 6, 6'-ヘプタクロロビフェニル	179678-32-1	POPs
Prohibited		(S)-2, 2', 3, 3', 4, 6, 6'-ヘプタクロロビフェニル	179678-33-2	POPs
Prohibited		(R)-2, 2', 3, 3', 5, 6'-ヘキサクロロビフェニル	205991-67-9	POPs
Prohibited		(S)-2, 2', 3, 3', 5, 6'-ヘキサクロロビフェニル	205991-68-0	POPs
Prohibited		(R)-2, 2', 3, 4, 5', 6-ヘキサクロロビフェニル	205991-69-1	POPs
Prohibited		(S)-2, 2', 3, 4, 5', 6-ヘキサクロロビフェニル	205991-70-4	POPs
Prohibited		(+)-2, 2', 3, 3', 6-ペンタクロロビフェニル	207004-27-1	POPs
Prohibited		(+)-2, 2', 3, 3', 4, 6'-ヘキサクロロビフェニル	207004-28-2	POPs
Prohibited		(-)-2, 2', 3, 3', 5, 6'-ヘキサクロロビフェニル	207004-29-3	POPs
Prohibited		(+)-2, 2', 3, 3', 6, 6'-ヘキサクロロビフェニル	207004-30-6	POPs
Prohibited		(-)-2, 2', 3, 3', 4, 5, 6'-ヘプタクロロビフェニル	207004-31-7	POPs

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		(+)-2, 2', 3, 3', 4, 6, 6'-ヘブタクロロビフェニル	207004-32-8	POPs
Prohibited		(+)-2, 2', 3, 3', 4, 6-ヘキサクロロビフェニル	207004-33-9	POPs
Prohibited		(+)-2, 2', 3, 3', 4, 5', 6-ヘブタクロロビフェニル	207004-34-0	POPs
Prohibited		(+)-2, 2', 3, 3', 4, 4', 5, 6'-オクタクロロビフェニル	207004-35-1	POPs
Prohibited		(+)-2, 2', 3, 4', 5', 6-ヘキサクロロビフェニル	207004-36-2	POPs
Prohibited		(+)-2, 2', 3, 4, 5', 6-ヘキサクロロビフェニル	228420-06-2	POPs
Prohibited		(+)-2, 2', 3, 4, 4', 5', 6-ヘブタクロロビフェニル	228420-07-3	POPs
Prohibited		(±)-2, 2', 3, 4, 6-ペンタクロロビフェニル	99554-08-2	POPs
Prohibited		(±)-2, 2', 3, 4, 4', 6-ヘキサクロロビフェニル	99554-09-3	POPs
Prohibited		1, 8, 9, 10, 11, 11-ヘキサクロロ-4-オキサテトラシクロ[6.2.1.0(2,7).0(3,5)]ウンデカ-9-エン	6058-23-7	POPs
Prohibited		rel-(1R, 4S, 7S, 8S, 9S)-2, 3, 4, 5, 6, 9-ヘキサクロロトリシクロ[5.2.1.0(4,8)]デカ-2, 5-ジエン	56534-03-3	POPs
Prohibited		rel-(1R, 4S, 7S, 8S, 10S)-2, 3, 4, 5, 6, 10-ヘキサクロロトリシクロ[5.2.1.0(4,8)]デカ-2, 5-ジエン	56641-38-4	POPs
Prohibited		N, N'-ジ-2-トリル-1, 4-フェニレンジアミン	15017-02-4	POPs
Prohibited		2, 2', 4, 4', 5, 6'-ヘキサプロモビフェニル	36402-15-0	POPs
Prohibited		2, 2', 3, 3', 5, 5'-ヘキサプロモビフェニル	55066-76-7	POPs
Prohibited		2, 2', 4, 4', 6, 6'-ヘキサプロモビフェニル	59261-08-4	POPs
Prohibited		3, 3', 4, 4', 5, 5'-ヘキサプロモビフェニル	60044-26-0	POPs
Prohibited		2, 2', 3, 4, 4', 5'-ヘキサプロモビフェニル	67888-98-6	POPs
Prohibited		2, 3', 4, 4', 5, 5'-ヘキサプロモビフェニル	67888-99-7	POPs
Prohibited		2, 2', 3, 4', 5', 6-ヘキサプロモビフェニル	69278-59-7	POPs
Prohibited		2, 3, 3', 4, 4', 5-ヘキサプロモビフェニル	77607-09-1	POPs
Prohibited		2, 2', 3, 4, 4', 5-ヘキサプロモビフェニル	81381-52-4	POPs
Prohibited		2, 2', 3, 3', 4, 4'-ヘキサプロモビフェニル	82865-89-2	POPs
Prohibited		2, 2', 3, 3', 4, 5'-ヘキサプロモビフェニル	82865-90-5	POPs
Prohibited		2, 3, 3', 4', 5', 6-ヘキサプロモビフェニル	82865-91-6	POPs
Prohibited		2, 3, 3', 4, 4', 5'-ヘキサプロモビフェニル	84303-47-9	POPs
Prohibited		2, 3', 4, 4', 5', 6-ヘキサプロモビフェニル	84303-48-0	POPs
Prohibited		2, 2', 3, 4', 6, 6'-ヘキサプロモビフェニル	93261-83-7	POPs
Prohibited		2, 2', 3, 3', 4, 6'-ヘキサプロモビフェニル	119264-50-0	POPs



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited		2, 2', 3, 3', 5, 6'-ヘキサブロモビフェニル	119264-51-6	POPs
Prohibited		2, 2', 3, 4, 5', 6'-ヘキサブロモビフェニル	119264-52-7	POPs
Prohibited		2, 2', 3, 5, 5', 6'-ヘキサブロモビフェニル	119264-53-8	POPs
Prohibited		2, 2', 3, 4, 5, 5'-ヘキサブロモビフェニル	120991-47-1	POPs
Prohibited		2, 3, 3', 4, 5, 5'-ヘキサブロモビフェニル	120991-48-2	POPs
Prohibited		1, 2-ジブロモ-4-(3, 4-ジブロモフェノキシ)ベンゼン	93703-48-1	POPs
Prohibited		1, 3-ジブロモ-5-(3, 5-ジブロモフェノキシ)ベンゼン	103173-66-6	POPs
Prohibited		1, 2, 3, 4, 5-ペンタブロモ-6-フェノキシベンゼン	189084-65-9	POPs
Prohibited		トリブロモ(トリブロモフェノキシ)ベンゼン	31153-30-7	POPs
Prohibited		1, 3, 5-トリブロモ-2-(2, 4, 6-トリブロモフェノキシ)ベンゼン	35854-94-5	POPs
Prohibited		1, 2, 4, 5-テトラブロモ-3-(2, 4, 6-トリブロモフェノキシ)ベンゼン	116995-32-5	POPs
Prohibited		1, 2, 3, 5-テトラブロモ-4-(2, 4, 6-トリブロモフェノキシ)ベンゼン	117948-63-7	POPs
Prohibited		クロロビフェニル	27323-18-8	The Chemical Substances Control Law (Class I)
Prohibited	hexachlorobiphenyl (2,2',4,4',6,6'-PCB)		33979-03-2	The Chemical Substances Control Law (Class I)
Prohibited	1-Chloronaphthalene	1-クロロナフタレン	90-13-1	The Chemical Substances Control Law (Class I)
Prohibited	2-Chloronaphthalene	2-クロロナフタレン	91-58-7	The Chemical Substances Control Law (Class I)
Prohibited	1,5-DICHLORONAPHTHALENE	1, 5-ジクロロナフタレン	1825-30-5	The Chemical Substances Control Law (Class I)
Prohibited	1,4-DICHLORONAPHTHALENE	1, 4-ジクロロナフタレン	1825-31-6	POPs
Prohibited	1,2-DICHLORONAPHTHALENE	1, 2-ジクロロナフタレン	2050-69-3	POPs
Prohibited	1,6-Dichloronaphthalene	1, 6-ジクロロナフタレン	2050-72-8	POPs
Prohibited	1,7-Dichloronaphthalene	1, 7-ジクロロナフタレン	2050-73-9	POPs
Prohibited	1,8-Dichloronaphthalene	1, 8-ジクロロナフタレン	2050-74-0	POPs
Prohibited	2,3-Dichloronaphthalene	2, 3-ジクロロナフタレン	2050-75-1	POPs
Prohibited	2,6-Dichloronaphthalene	2, 6-ジクロロナフタレン	2065-70-5	POPs
Prohibited	1,3-Dichloronaphthalene	1, 3-ジクロロナフタレン	2198-75-6	POPs
Prohibited	2,7-Dichloronaphthalene	2, 7-ジクロロナフタレン	2198-77-8	POPs
Prohibited	1,4,6-Trichloronaphthalene	1, 4, 6-トリクロロナフタレン	2437-54-9	POPs
Prohibited	1,4,5-Trichloronaphthalene	1, 3, 5-トリクロロナフタレン	2437-55-0	POPs
Prohibited	1,4,5,8-Tetrachloronaphthalene	1, 4, 5, 8-テトラクロロナフタレン	3432-57-3	POPs
Prohibited	1,2,4,8-Tetrachloronaphthalene	1, 2, 4, 8-テトラクロロナフタレン	6529-87-9	POPs
Prohibited	1,2,4,5-Tetrachloronaphthalene	1, 2, 4, 5-テトラクロロナフタレン	6733-54-6	POPs
Prohibited	1,2,3,6,7,8-Hexachloronaphthalene	1, 2, 3, 6, 7, 8-ヘキサクロロナフタレン	17062-87-2	POPs
Prohibited	1,2,3,4-Tetrachloronaphthalene	1, 2, 3, 4-テトラクロロナフタレン	20020-02-4	POPs

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	1,3,5,8-Tetrachloronaphthalene	1, 3, 5, 8-テトラクロロナフタレン	31604-28-1	POPs
Prohibited	Heptachloronaphthalene	ヘブラクロロナフタレン	32241-08-0	POPs
Prohibited	2,3,6,7-Tetrachloronaphthalene	2, 3, 6, 7-テトラクロロナフタレン	34588-40-4	POPs
Prohibited	1,2,4-Trichloronaphthalene	1, 2, 4-トリクロロナフタレン	50402-51-2	POPs
Prohibited	1,2,3-Trichloronaphthalene	1, 2, 3-トリクロロナフタレン	50402-52-3	POPs
Prohibited	1,3,5-Trichloronaphthalene	1, 3, 5-トリクロロナフタレン	51570-43-5	POPs
Prohibited	1,2,6-Trichloronaphthalene	1, 3, 6-トリクロロナフタレン	51570-44-6	POPs
Prohibited	1,2,4,6-Tetrachloronaphthalene	1, 2, 4, 6-テトラクロロナフタレン	51570-45-7	POPs
Prohibited	1,2,3,5-Tetrachloronaphthalene	1, 2, 3, 5-テトラクロロナフタレン	53555-63-8	POPs
Prohibited	1,3,5,7-Tetrachloronaphthalene	1, 2, 5, 7-テトラクロロナフタレン	53555-64-9	POPs
Prohibited	1,2,3,5,7-Pentachloronaphthalene	1, 2, 3, 5, 7-ペンタクロロナフタレン	53555-65-0	POPs
Prohibited	1,2,5-Trichloronaphthalene	1, 2, 5-トリクロロナフタレン	55720-33-7	POPs
Prohibited	1,2,7-Trichloronaphthalene	1, 2, 7-トリクロロナフタレン	55720-34-8	POPs
Prohibited	1,2,8-Trichloronaphthalene	1, 2, 8-トリクロロナフタレン	55720-35-9	POPs
Prohibited	1,3,6-Trichloronaphthalene	1, 3, 6-トリクロロナフタレン	55720-36-0	POPs
Prohibited	1,3,7-Trichloronaphthalene	1, 3, 7-トリクロロナフタレン	55720-37-1	POPs
Prohibited	1,3,8-Trichloronaphthalene	1, 3, 8-トリクロロナフタレン	55720-38-2	POPs
Prohibited	1,6,7-Trichloronaphthalene	1, 6, 7-トリクロロナフタレン	55720-39-3	POPs
Prohibited	2,3,6-Trichloronaphthalene	2, 3, 6-トリクロロナフタレン	55720-40-6	POPs
Prohibited	1,2,3,7-Tetrachloronaphthalene	1, 2, 3, 7-テトラクロロナフタレン	55720-41-7	POPs
Prohibited	1,3,6,7-Tetrachloronaphthalene	1, 3, 6, 7-テトラクロロナフタレン	55720-42-8	POPs
Prohibited	1,4,6,7-Tetrachloronaphthalene	1, 4, 6, 7-テトラクロロナフタレン	55720-43-9	POPs
Prohibited	1,2,3,4,5,6,7-Heptachloronaphthalene	1, 2, 3, 4, 5, 6, 7-ペンタクロロナフタレン	58863-14-2	POPs
Prohibited	1,2,3,4,5,6,8-Heptachloronaphthalene	1, 2, 3, 4, 5, 6, 8-ペンタクロロナフタレン	58863-15-3	POPs
Prohibited	1,2,3,4,5,6-Hexachloronaphthalene	1, 2, 3, 4, 5, 6-ヘキサクロロナフタレン	58877-88-6	POPs
Prohibited	1,2,4,7-Tetrachloronaphthalene	1, 2, 4, 7-テトラクロロナフタレン	67922-21-8	POPs
Prohibited	1,2,5,6-Tetrachloronaphthalene	1, 2, 5, 6-テトラクロロナフタレン	67922-22-9	POPs
Prohibited	1,2,5,7-Tetrachloronaphthalene	1, 2, 5, 7-テトラクロロナフタレン	67922-23-0	POPs
Prohibited	1,2,6,8-Tetrachloronaphthalene	1, 2, 6, 8-テトラクロロナフタレン	67922-24-1	POPs
Prohibited	1,2,3,4,5-Pentachloronaphthalene	1, 2, 3, 4, 5-ペンタクロロナフタレン	67922-25-2	POPs
Prohibited	1,2,3,4,6-Pentachloronaphthalene	1, 2, 3, 4, 6-ペンタクロロナフタレン	67922-26-3	POPs
Prohibited	1,2,3,4,5,7-Hexachloronaphthalene	1, 2, 3, 4, 5, 7-ヘキサクロロナフタレン	67922-27-4	POPs
Prohibited	1,2,4,5,6,8-Hexachloronaphthalene	1, 2, 4, 5, 6, 8-ヘキサクロロナフタレン	90948-28-0	POPs
Prohibited	1,2,4,5,7,8-Hexachloronaphthalene	1, 2, 4, 5, 7, 8-ヘキサクロロナフタレン	103426-92-2	POPs
Prohibited	1,2,3,4,5,8-Hexachloronaphthalene	1, 2, 3, 4, 5, 8-ヘキサクロロナフタレン	103426-93-3	POPs
Prohibited	1,2,3,5,7,8-Hexachloronaphthalene	1, 2, 3, 5, 7, 8-ヘキサクロロナフタレン	103426-94-4	POPs
Prohibited	1,2,3,5,6,8-Hexachloronaphthalene	1, 2, 3, 5, 6, 8-ヘキサクロロナフタレン	103426-95-5	POPs
Prohibited	1,2,3,4,6,7-Hexachloronaphthalene	1, 2, 3, 4, 6, 7-ヘキサクロロナフタレン	103426-96-6	POPs



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	1,2,3,5,6,7-Hexachloronaphthalene	1, 2, 3, 5, 6, 7-ヘキサクロロナフタレン	103426-97-7	POPs
Prohibited	1,2,3,6-Tetrachloronaphthalene	1, 2, 3, 6-テトラクロロナフタレン	149864-78-8	POPs
Prohibited	1,2,6,7-Tetrachloronaphthalene	1, 2, 3, 6-テトラクロロナフタレン	149864-79-9	POPs
Prohibited	1,2,5,8-Tetrachloronaphthalene	1, 2, 5, 8-テトラクロロナフタレン	149864-80-2	POPs
Prohibited	1,2,3,8-Tetrachloronaphthalene	1, 2, 3, 8-テトラクロロナフタレン	149864-81-3	POPs
Prohibited	1,2,7,8-Tetrachloronaphthalene	1, 2, 7, 8-テトラクロロナフタレン	149864-82-4	POPs
Prohibited	1,2,3,7,8-Pentachloronaphthalene	1, 2, 3, 7, 8-ペンタクロロナフタレン	150205-21-3	POPs
Prohibited	1,3,6,8-Tetrachloronaphthalene	1, 3, 6, 8-テトラクロロナフタレン	150224-15-0	POPs
Prohibited	1,2,3,6,7-Pentachloronaphthalene	1, 2, 3, 6, 7-ペンタクロロナフタレン	150224-16-1	POPs
Prohibited	1,2,4,6,7-Pentachloronaphthalene	1, 2, 4, 6, 7-ペンタクロロナフタレン	150224-17-2	POPs
Prohibited	1,2,3,5,6-Pentachloronaphthalene	1, 2, 3, 5, 6-ペンタクロロナフタレン	150224-18-3	POPs
Prohibited	1,2,4,5,7-Pentachloronaphthalene	1, 2, 4, 5, 7-ペンタクロロナフタレン	150224-19-4	POPs
Prohibited	1,2,4,5,6-Pentachloronaphthalene	1, 2, 4, 5, 6-ペンタクロロナフタレン	150224-20-7	POPs
Prohibited	1,2,4,7,8-Pentachloronaphthalene	1, 2, 4, 7, 8-ペンタクロロナフタレン	150224-21-8	POPs
Prohibited	1,2,4,6,8-Pentachloronaphthalene	1, 2, 4, 6, 8-ペンタクロロナフタレン	150224-22-9	POPs
Prohibited	1,2,3,6,8-Pentachloronaphthalene	1, 2, 3, 6, 8-ペンタクロロナフタレン	150224-23-0	POPs
Prohibited	1,2,3,5,8-Pentachloronaphthalene	1, 2, 3, 5, 8-ペンタクロロナフタレン	150224-24-1	POPs
Prohibited	1,2,4,5,8-Pentachloronaphthalene	1, 2, 4, 5, 8-ペンタクロロナフタレン	150224-25-2	POPs
Prohibited	hexachloronaphthalene (Halowax 1014)	ポリ塩化ナフタレン	1335-87-1	The Chemical Substances Control Law (Class I)
Prohibited	tetrachloronaphthalene	ポリ塩化ナフタレン	1335-88-2	The Chemical Substances Control Law (Class I)
Prohibited	octachloronaphthalene	ポリ塩化ナフタレン	2234-13-1	The Chemical Substances Control Law (Class I)
Prohibited	chloronaphthalene	ポリ塩化ナフタレン	25586-43-0	The Chemical Substances Control Law (Class I)
Prohibited	dichloronaphthalene	ポリ塩化ナフタレン	28699-88-9	The Chemical Substances Control Law (Class I)
Prohibited		ポリ塩化テルフェニル類(PCTs)	—	REACH AnnexXVII
Observation	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite		71011-24-0	2017 GADSL
Observation	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite		71011-26-2	2017 GADSL
Observation	Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite		68953-58-2	2017 GADSL
Observation	Resin acids and Rosin acids, calcium salts		9007-13-0	2017 GADSL
Observation	Resin acids and Rosin acids, sodium salts		61790-51-0	2017 GADSL
Observation	Resin acids and Rosin acids, hydrogenated, esters with pentaerythritol		64365-17-9	2017 GADSL
Observation	Resin acids and Rosin acids, hydrogenated, esters with glycerol		65997-13-9	2017 GADSL
Observation	Resin acids and Rosin acids, hydrogenated, methyl esters		8050-15-5	2017 GADSL
Observation	Succinic anhydride, octadecenyl-		28777-98-2	2017 GADSL
Observation	Sulfonic acids, C10-18-alkane, phenyl esters		70775-94-9	2017 GADSL

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Sulfonic acids, petroleum, calcium salts, overbased		68783-96-0	2017 GADSL
Observation	Sulfonic acids, petroleum, barium salts		61790-48-5	2017 GADSL
Observation	Sulfonic acids, petroleum, calcium salts		61789-86-4	2017 GADSL
Observation	Sulfonic acids, petroleum, magnesium salts		61789-87-5	2017 GADSL
Observation	Sulfonic acids, petroleum, sodium salts		68608-26-4	2017 GADSL
Observation	Tall Oil		8002-26-4	2017 GADSL
Observation	Tall oil pitch		8016-81-7	2017 GADSL
Observation	2,4,6-Triallyloxy-1,3,5-triazine		101-37-1	2017 GADSL
Prohibited	Triphenyl tin oxide: Oxybis[triphenyl tin (IV)]	トリフェニルスズイキシド:オキシビス[トリフェニルスズ(IV)]	1262-21-1	REACH AnnexXVII
Prohibited	Trybutyle tin phosphate	トリブチルスズリン酸塩	13435-05-7	REACH AnnexXVII
Prohibited	Tribenzyltin hydroxide: Hydroxytris(phenylmethyl)stannane	トリベンジルスズヒドロオキサイド:ヒドロキシトリス(フェニルメチル)スタンナン:トリベンジルヒドロキシスタンナン	15082-85-6	REACH AnnexXVII
Prohibited	Phthaloyloxybis(triphenyltin)	フタル酸ビス(トリフェニルスズ)	1954-36-5	REACH AnnexXVII
Prohibited	Triphenyltin laurate	トリフェニルスズラウレート	3644-29-9	REACH AnnexXVII
Prohibited	Tributyltin pentachlorophenolate	トリブチルスズペンタクロロフェノレート	3644-38-0	REACH AnnexXVII
Prohibited	Tributyltin terephthalate	ビス(トリブチルスズテレフタレート)	4756-53-0	REACH AnnexXVII
Prohibited	Tributyl(formyloxy)stannane	トリブチル(ホルミルオキシ)スズ	5847-51-8	REACH AnnexXVII
Prohibited	Tributyltin ethoxide	トリブチルスズエトキシド	682-00-8	REACH AnnexXVII
Prohibited	Tri-n-butyltin trifluoromethanesulfonate	トリフルオロメタンスルホン酸トリ-n-ブチルスズ	68725-14-4	REACH AnnexXVII
Prohibited	Triphenyltin benzoate	トリフェニルスズ安息香酸	910-06-5	REACH AnnexXVII
Observation	tris(2-ethylhexyl)-benzene-1,2,4-tricarboxylate		3319-31-1	2017 GADSL
Observation	Tris(methylphenyl) phosphate		1330-78-5	2017 GADSL
Observation	Tris(nonylphenyl) phosphite (TNPP)		26523-78-4	2017 GADSL
Observation	zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)		4259-15-8	2017 GADSL
Observation	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(14) [Aliphatic/alicyclic brominated compounds]		—	IEC 62474
Observation	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]		—	IEC 62474
Observation	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(16) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]		—	IEC 62474
Observation	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(17) [Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls] in combination with antimony compounds]		—	IEC 62474
Observation	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(22) [Aliphatic/alicyclic chlorinated and brominated compounds]		—	IEC 62474
Observation	Brominated flame retardant which comes under notation of ISO 1043-4 code number FR(42) [Brominated organic phosphorus compounds]		—	IEC 62474
Observation	Other Brominated Flame Retardants		—	IEC 62474
Prohibited	Tribromofluoroethane		—	IEC 62474



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Prohibited	Bromodifluoropropane(HBFC-262 B1)		—	IEC 62474
Prohibited	1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane		—	IEC 62474
Prohibited	Other radioactive substances		—	IEC 62474
Prohibited	Other Short Chain Chlorinated Paraffins		—	IEC 62474
Prohibited	Other tri-substituted organostannic compounds		—	IEC 62474
Observation	Other Chlorinated Flame Retardants		—	IEC 62474
Reduced		1,1-ジクロロエチレン	—	REACH AnnexXVII
Reduced		コールタール	8007-45-2	REACH AnnexXVII
Observation		クレオソートオイル, high-boiling distillate	70321-79-8	REACH AnnexXVII
Observation		クレオソートオイル, low-boiling distillate	70321-80-1	REACH AnnexXVII
Observation		クレオソートオイル, acenaphthene fraction, acenaphthene-free	90640-85-0	REACH AnnexXVII
Prohibited	trichlorobenzene all isomers		12002-48-1	REACH AnnexXVII
Observation	tetrachloroethylene (ethylene tetrachloride ; perchloroethylene)		127-18-4	The Chemical Substances Control Law (Class II)
Observation	trichloromethane (chloroform)	クロロホルム	67-66-3	REACH AnnexXVII
Observation	vinylidene dichloride (1,1-dichloroethene ; 1,1-dichloroethylene)		75-35-4	REACH AnnexXVII
Observation	Benzen,1,2,4,5-tetrabromo-3-(2,4-dibromophenoxy)-		116995-33-6	The Chemical Substances Control Law (Class I)
Observation	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate		57583-35-4	CLP
Observation	technical 1,2,3,4,5,6-hexachlorocyclohexane (HCH mixed isomers)		608-73-1	POPs
Observation		発癌性物質CLP規則の附属書VIにおいてに発がん性または生殖毒性物質 (CMR) 区分1Aまたは1Bに新たに調和分	—	REACH AnnexXVII
Observation		変異原性物質	—	REACH AnnexXVII
Observation		生殖毒性物質CLP規則の附属書VIにおいてに発がん性または生殖毒性物質 (CMR) 区分1Aまたは1Bに新たに調和分	—	REACH AnnexXVII
Observation		67/548/EECで引火性基準を満たし (EC)No1272/2008附属書VI第3部で定義されるかに関わらず、非常に可燃性があると分類されるもの	—	REACH AnnexXVII
Observation		ホスフィニジンインジウム(III)	22398-80-7	CLP
Observation		ベンゼン(5%超)含有ゴムのり	—	Prohibited under the Industrial Safety and Health Act
Observation		4,4'-メチレンビスアニリン	—	REACH AnnexXVII
Observation		セッケンボクの粉末及びサポニンを含むその誘導体類、ベンジジン及び/またはその誘導体類、o-ニトロベンズアルデヒド、木粉	—	REACH AnnexXVII
Observation		ジ-μ-オキソ-ジ-ブチルスズヒドロキシボラン(DBB)	—	REACH AnnexXVII
Observation		シクロヘキサン	1735-17-7	REACH AnnexXVII
Observation		ジメチル=フマラート	—	REACH AnnexXVII
Observation		無機アンモニウム塩	—	REACH AnnexXVII
Observation		4-ニトロジフェニル及びその塩	—	Prohibited under the Industrial Safety and Health Act
Observation	3,3'-dichlorobenzidine dihydrogen bis(sulphate)		64969-34-2	REACH AnnexXVII
Observation	Slags, lead-zinc smelting		93763-87-2	REACH AnnexXVII

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation		2-エチル-2-ヒドロキシメチルヘキサノ酸	101051-51-8	The Chemical Substances Control Law (Class II)
Observation		トリアリルイソシアヌレート	1025-15-6	The Chemical Substances Control Law (Class II)
Observation		トリプロピルアミン	102-69-2	The Chemical Substances Control Law (Class II)
Observation		アクリナトリン(unstated isomers)	103833-18-7	The Chemical Substances Control Law (Class II)
Observation		1,2-ジフェノキシエタン	104-66-5	The Chemical Substances Control Law (Class II)
Observation		5,6,7,8-テトラヒドロキノリン	10500-57-9	The Chemical Substances Control Law (Class II)
Observation		1,1'-(メチレンビス(4,1-フェニレンアゾ(1-(3-(ジメチルアミノ)プロピル)-6-ヒドロキシ-4-メチル-2(1H)ピリドン-5,3-ジイル)))ジピリジニウム=ジクロライド-(2H)	105994-38-5	The Chemical Substances Control Law (Class II)
Observation		N-イソプロピルマレイミド	1073-93-4	The Chemical Substances Control Law (Class II)
Observation		1-クロロブタン	109-69-3	The Chemical Substances Control Law (Class II)
Observation		チオフェン	110-02-1	The Chemical Substances Control Law (Class II)
Observation		$\alpha$ -(1-((アリルオキシ)メチル)-2-(ノニルフェノキシ)エチル)- $\omega$ -ヒドロキシポリ(n=1~100)(オキシエチレン)	111144-60-6	The Chemical Substances Control Law (Class II)
Observation		アクリル酸=3-テトラシクロ(4.4.0.1 2.5 . 1 7.10 )ドデシル	111404-23-0	The Chemical Substances Control Law (Class II)
Observation		クロルデン(technical grade)	12789-03-6	The Chemical Substances Control Law (Class I)
Observation		テトラエチルピロホスファイト	21646-99-1	Poisonous and Deleterious Substances Control Act (Specified Poisons)
Observation		ジクロロビフェニル(unspecified isomers)	25512-42-9	The Chemical Substances Control Law (Class I)
Observation		イミダゾール	288-32-4	CLP
Observation		$\alpha$ -クロルデン	5103-71-9	The Chemical Substances Control Law (Class I)
Observation		$\beta$ -クロルデン	5103-74-2	The Chemical Substances Control Law (Class I)
Observation		$\gamma$ -クロルデン	5566-34-7	The Chemical Substances Control Law (Class I)
Observation		酸化トリブチルスズ	—	The Chemical Substances Control Law (Class I)
Observation		Hellebours viridis及びHelleboursnigerの根の粉末	—	REACH AnnexXVII
Observation		Vetatrum album及びVetatrumnigrumの根の粉末	—	REACH AnnexXVII
Observation	reaction mass of: 4-[[bis-(4-fluorophenyl)methylsilyl]methyl]-4H-1,2,4-triazole		—	CLP
Observation	dimethyl (2-(hydroxymethylcarbamoyl)ethyl)phosphate; diethyl (2-(hydroxymethylcarbamoyl)ethyl)phosphate; methyl ethyl(2-(hydroxymethylcarbamoyl)ethyl)phosphate		—	CLP



NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	zinc chromates including zinc potassium chromate		—	CLP
Observation	Chromium (VI) compounds, with the exception of bariumchromate and of compounds specified elsewhere in this Annex		—	CLP
Observation	arsenic acid and its salts with the exception of those specified elsewhere in this Annex		—	CLP
Observation	lead compounds with the exception of those specified elsewhere in this Annex		—	CLP
Observation	lead alkyls		—	CLP
Observation	reaction mass of: disodium 4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-hydroxy-1-(4-sulfonatophenyl)pyrazol-4-yl)penta-2,4-dienylidene)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulfonate trisodium 4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-oxido-1-(4-sulfonatophenyl)pyrazol-4-yl)penta-2,4-dienylidene)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulfonate		—	CLP
Observation	diammonium 1-hydroxy-2-(4-(4-carboxyphenylazo)-2,5-dimethoxyphenylazo)-7-amino-3-naphthalenesulfonate		—	CLP
Observation	salts and esters of dinoseb, with the exception of those specified elsewhere in this Annex		—	CLP
Observation	salts and esters of dinoterb		—	CLP
Observation	Benzidine based azo dyes;4,4'-diarylazobiphenyl dyes, with the exception of those specified elsewhere in this Annex		—	CLP
Observation	o-dianisidine based azo dyes;4,4'-diarylazo-3,3'-dimethoxybiphenyl dyes with the exception of those mentioned elsewhere in this Annex		—	CLP
Observation	o-tolidine based dyes;4,4'-diarylazo-3,3'-dimethylbiphenyl dyes, with the exception of those mentioned elsewhere in this Annex		—	CLP
Observation	salts of 3,3'-dimethoxybenzidine		—	CLP
Observation	salts of 3,3'-dichlorobenzidine		—	CLP
Observation	salts of biphenyl-4-ylamine		—	CLP
Observation	methyl-phenylene diamine; diaminotoluene; [technical product – reaction mass of 4-methyl-m-phenylene diamine(EC No 202-453-1) and 2-methyl-m-phenylene diamine(EC No 212-513-9)]		—	CLP
Observation	salts of 2,2'-dichloro-4,4'-methylenedianiline		—	CLP
Observation	(2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[1H-1,2,4-triazol-1-yl)methyl]oxirane		133855-98-8	CLP
Observation	reaction mass of: 1,3,5-tris(3-aminomethylphenyl)-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione		—	CLP
Observation	reaction mass of: N-[3-hydroxy-2-(2-methylacryloylaminomethoxy)propoxymethyl]-2-methylacrylamide		—	CLP
Observation	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]		—	REACH SVHC 16th
Observation	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		3108-42-7	REACH SVHC 16th
Observation	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		335-76-2	REACH SVHC 16th

NSK Management Classification	Substance	Substance (in Japanese)	CAS-No.	Reason
Observation	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts		3830-45-3	REACH SVHC 16th
Observation	p-(1,1-dimethylpropyl)phenol		80-46-6	REACH SVHC 16th





**8. Substances for which classification has changed**  
**(substances for which classification has changed from Ver. 6.4 to Ver. 6.5)**

Substance	Substance (in Japanese)	CAS-No.	2017	List Ver 6.5 Management Classification	2016	List Ver 6.4 Management Classification
Chromium cobalt copper iron manganese oxide	クロム、コバルト、銅、鉄 の酸化物	102262-21-5	2017GADSL D (These are not Cr+6 substnaces)	Observation	2016GADSL D/P	Prohibited Reduced
Chromium cobalt iron manganese oxide	クロム、コバルト、鉄、マ ンガンの酸化物	102262-22-6	2017GADSL D (These are not Cr+6 substnaces)	Observation	2016GADSL D/P	Prohibited Reduced
Chromium cobalt manganese oxide	クロム、コバルト、マンガ ンの酸化物	102262-19-1	2017GADSL D (These are not Cr+6 substnaces)	Observation	2016GADSL D/P	Prohibited Reduced
Chromium cobalt oxide	酸化クロムコバルト	37382-24-4	2017GADSL D (These are not Cr+6 substnaces)	Observation	2016GADSL D/P	Prohibited Reduced
Chromium cobalt oxide (Cr <sub>2</sub> CoO <sub>4</sub> )	酸化コバルトクロム	12016-69-2	2017GADSL D (These are not Cr+6 substnaces)	Observation	2016GADSL D/P	Prohibited Reduced
Chromium nickel oxide (Cr <sub>2</sub> NiO <sub>4</sub> )	酸化クロムニッケル (Cr <sub>2</sub> NiO <sub>4</sub> )	12018-18-7	2017GADSL D (These are not Cr+6 substnaces)	Observation	2016GADSL D/P	Prohibited Reduced
Cobalt chromium alloy		11114-92-4	2017GADSL D (These are not Cr+6 substnaces)	Observation	2016GADSL D/P	Prohibited
Dichlofluanid; N- [(Dichlorofluoromethyl)thi o]-N',N'-dimethyl-N- phenylsulfamide	ジクロフロアニド	1085-98-9	2017GADSL D/P	Reduced Observation	2016GADSL D	Observation
Mercuric chloride		33631-63-9	RoHS REACH AnnexXVII IEC62474 D13.00	Prohibited Reduced	IEC62474 D10.00	Prohibited
Nickel	ニッケル	7440-02-0	REACH AnnexXVII	Prohibited Observation	REACH AnnexXVII	Prohibited Reduced





NSK Ltd.

List of NSK Environmentally Harmful Substances(Ver.6.5)