日本パーカライジング株式会社
NIHON PARKERIZING CO.,LTD.

Nihon Parkerizing Co., Ltd.

Standards for the Management of Chemical Substances Contained in Products

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Overview of Nihon Parkerizing Co., Ltd.'s Product Chemical Substance Management Standard

As public concern regarding the impact of chemical substances on human health and the environment continues to grow, Nihon Parkerizing Co., Ltd. (hereinafter referred to as "the Company") has recognized its social responsibility as a manufacturer and supplier of chemical products and has been actively engaged in chemical substance management.
The Company has established its basic policy for chemical substance management and, accordingly, has formulated this **Product Chemical Substance Management Standard**.
This standard designates the Company's Prohibited Chemical Substances, Chemicals Subject to Reduction, and Managed Chemical Substances based on chemical substance regulations in Japan and overseas, scientific knowledge concerning chemical hazards and risks, and considerations of corporate social responsibility.
The following sections describe the Company's approach to chemical substance management and provide lists of chemical substances subject to prohibition, reduction, and management.

1. Prohibited Chemical Substances

The substances listed below, whose distribution in Japan is generally prohibited by law, are designated as **Prohibited Chemical Substances** by the Company.
The Company does not manufacture, sell, or supply any products that contain prohibited chemical substances in violation of applicable laws and regulations.
Furthermore, the delivery to the Company of raw materials, auxiliary materials, or other supplies containing prohibited chemical substances in violation of applicable laws and regulations is strictly prohibited.
1.1 Class I Specified Chemical Substances under the *Act on the Regulation of Manufacture and Evaluation of Chemical Substances (CSCL)*
1.2 Harmful substances whose manufacture, import, transfer, provision, or use is prohibited under the *Industrial Safety and Health Act (ISHA)*

1.3 Specified Poisonous Substances under the *Poisonous and Deleterious Substances Control Act (PDSCA)*

2. Chemicals Subject to Reduction

The Company designates as **Chemicals Subject to Reduction** those substances that are used in relatively large quantities and are considered to pose potential risks to human health and/or the environment.

The Company actively promotes efforts to reduce the use of such substances and to replace them with safer alternatives.
Suppliers providing raw materials, auxiliary materials, or other supplies to the Company are requested to disclose information regarding the presence of Chemicals Subject to Reduction.

3. Managed Chemical Substances

The Company designates as **Managed Chemical Substances** those substances that it has determined require management based on domestic and international regulatory requirements and corporate social responsibility considerations.
Suppliers providing raw materials, auxiliary materials, or other supplies to the Company are requested to provide information regarding the presence of such substances and to ensure appropriate communication of relevant information throughout the supply chain.
With respect to management requirements established by major overseas regulations and industry organizations, the Company utilizes the latest version of **chemSHERPA** provided by the **CMP (Product Chemical Substance and Resource Circulation Information Platform; hereinafter referred to as "CMP")**.
In addition, substances for which chemSHERPA does not provide sufficient information communication are separately designated as "Nihon Parkerizing-Specific Controlled Substances." (Substances for which information communication is already required by Japanese laws and regulations are excluded from this category because information on their content is conveyed through Safety Data Sheets (SDSs) and other legally required documentation.)

3.1 chemSHERPA
3.2 Nihon Parkerizing-Specific Controlled Substances

Definitions of Terms

1) Environmentally Concerned Substances

Substances that are hazardous or potentially hazardous to human health and/or the environment.
Regardless of their inherent hazardous properties, this category also includes substances whose production, extraction, or procurement processes raise concerns relating to environmental protection, human rights, or other social issues. (Although all substances possess some degree of inherent hazardous properties, this management standard specifically identifies substances that are considered to present significant hazards and therefore require management.)

2) Intentional Presence

A substance is considered to be **intentionally present** when it is used or contained in a material for the purpose of maintaining its physical properties, functionality, quality, or appearance. Substances used as secondary raw materials, catalysts, solvents, or other processing aids that cannot be completely removed, or that remain intentionally after processing, are managed by the Company as **intentionally present substances**.
Furthermore, substances meeting this definition of intentional presence within raw materials are also regarded as intentionally present in the final product.

3) Unintentional Presence

A substance is considered to be **unintentionally present** when it is contained in a product for reasons other than intentional use.

- Substances that remain as impurities in materials or raw materials even after technically feasible purification processes have been applied for industrial-grade materials. However, substances classified as intentionally present under Definition 2 above are not regarded as unintentionally present.
- By-products generated during the manufacturing process that cannot be removed despite the application of technically feasible removal methods. However, substances resulting from the intentional use of low-purity raw materials or from the deliberate application of lower-than-normal purification standards are not regarded as unintentionally present.

4) Threshold Concentration

For unintentionally present substances, a **threshold concentration** is the concentration below which the substance is not regarded as prohibited or subject to management requirements.

- Concentration shall be calculated based on the **weight of a homogeneous material**.
- In the case of intentional presence, the Company considers the substance to be present regardless of its concentration, and disclosure of such information is required.
- Even in cases of unintentional presence, suppliers are requested to provide available information regarding the substance content whenever such information is known.

5) CAS Registry Number (CAS RN®)

A **CAS Registry Number (CAS RN®)** is a numerical identifier assigned to chemical substances by the **American Chemical Society (ACS)**.
A unique identifier is assigned to each chemical substance and can be used to identify and search for specific substances. However, because CAS RN® may also be assigned to isomer groups or generic substance names, the presence or absence of a substance cannot be determined solely by comparing CAS RN® numbers.

6) Product Content

Product Content refers to all instances in which a substance is contained in components or materials of a product, including packaging materials.
Examples include:

- The target substance is intentionally used.
- The target substance is present as an impurity.
- The target substance is used during the manufacturing process and remains or adheres to the final product, component, or material.

For example, if there is a possibility that a product may be contaminated during manufacturing through direct contact with molds, jigs, tools, machinery, or equipment, any parts that come into contact with the product must also be considered subject to restrictions on prohibited chemical substances.

7) Impurity

An **impurity** is a substance that is:

- Present in natural materials and cannot be completely removed through purification processes; or
- Generated during a chemical reaction and cannot be removed using technically feasible methods.

8) chemSHERPA

chemSHERPA is a standardized communication format provided by the **CMP** for the exchange of information on chemical substances contained in products throughout the supply chain.

1. Prohibited Chemical Substances

1.1 Class I Specified Chemical Substances under CSCL

(YYYY/MM/DD: 2026/6/20)

Japan CSCL: Class I Specified Chemical Substances

No.	Chemical Substance Name
1	Polychlorinated biphenyls
2	Polychlorinated naphthalenes (only those containing 2 or more chlorine atoms in the molecule)
3	Hexachlorobenzene
4	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene (Synonym: Aldrin)
5	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethanonaphthalene (Synonym: Dieldrin)
6	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene (Synonym: Endrin)
7	1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane (Synonym: DDT)
8	1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene and their analogous compounds (Synonym: Chlordane or Heptachlor)
9	Bis(tributyltin) oxide
10	N,N'-Ditolyl-p-phenylenediamine, N-Tolyl-N'-xylyl-p-phenylenediamine, or N,N'-Dixylyl-p-phenylenediamine
11	2,4,6-Tri-tert-butylphenol
12	Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptane (Synonym: Toxaphene)
13	Dodecachloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)]decane (Synonym: Mirex)
14	2,2,2-Trichloro-1-(2-chlorophenyl)-1-(4-chlorophenyl)ethanol or 2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol (Synonym: Kelthane or Dicofol)
15	Hexachlorobuta-1,3-diene
16	2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol
17	Perfluoro(octane-1-sulfonic acid) (Synonym: PFOS) or its salts

18	Perfluoro(octane-1-sulfonyl) fluoride (Synonym: PFOSF)
19	Pentachlorobenzene
20	r-1,c-2,t-3,c-4,t-5,t-6-Hexachlorocyclohexane (Synonym: alpha-Hexachlorocyclohexane)
21	r-1,t-2,c-3,t-4,c-5,t-6-Hexachlorocyclohexane (Synonym: beta-Hexachlorocyclohexane)
22	r-1,c-2,t-3,c-4,c-5,t-6-Hexachlorocyclohexane (Synonym: gamma-Hexachlorocyclohexane or Lindane)
23	Decachloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)]decan-5-one (Synonym: Chlordecone)
24	Hexabromobiphenyl
25	Tetrabromo(phenoxybenzene) (Synonym: Tetrabromodiphenyl ether)
26	Pentabromo(phenoxybenzene) (Synonym: Pentabromodiphenyl ether)
27	Hexabromo(phenoxybenzene) (Synonym: Hexabromodiphenyl ether)
28	Heptabromo(phenoxybenzene) (Synonym: Heptabromodiphenyl ether)
29	6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide (synonym: Endosulfan or Benzoepin)
30	Hexabromocyclododecane
31	Pentachlorophenol, its salts or esters
32	Polychlorinated normal paraffin (It is limited that the number of carbon is 10 to 13 and the content of chlorine is more than 48% of the total weight.)
33	1,1'-Oxybis(2,3,4,5,6-pentabromobenzene) (synonym: Decabromodiphenyl ether)
34	Perfluorooctanoic acid (Synonym: PFOA) or its salt
35	Perfluorooctanoic acid related compounds
36	Perfluoro(hexane-1-sulfonic acid) (Synonym: PFHxS) or perfluoro(alkanesulfonic acid)(It is limited to those with a branched structure and the number of carbon is 6.) or their salts
37	Perfluoro(hexane-1-sulfonic acid) related compounds (Which have a (tridecafluoroalkyl)sulfonyl group (Limited to those with six carbon atoms.) or [(tridecafluoroalkyl)sulfinyl]oxy group (Limited to those with six carbon atoms.), which are specified by Order of the Ministry of Health, Labour and Welfare, Order of the Ministry of Economy, Trade and Industry, and Order of the Ministry of the Environment as a chemical substance which generates a perfluoro(hexane-1-

	sulfonic acid) or a perfluoro(alkanesulfonic acid) by a chemical transformation through natural processes.)
38	2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol (synonym: UV-328)
39	1,1,1-Trichloro-2,2-bis(methoxyphenyl)ethane (synonym: Methoxychlor)
40	1,2,3,4,7,8,9,10,13,13,14,14-Dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e][8]annulene (synonym: Dechlorane Plus)

1.2 Industrial Safety and Health Act (ISHA), Japan

(YYYY/MM/DD: 2026/06/20)

Japan ISHA: Chemical Substances Prohibited to Manufacturing, etc.

No.	Chemical Substance Name
1	Yellow phosphorus matches
2	Benzidine and its salts
3	4-aminodiphenyl and its salts
4	Asbestos (excluding the substances listed below, as prescribed by the Ordinance of the Ministry of Health, Labour and Welfare.) (a) Asbestos used as a sample for asbestos analysis, (b) Asbestos used for education to acquire knowledge or skills related to the investigation of the use situation of asbestos, (c) Asbestos used as a material or ingredient in the substance listed in (a) or (b)
5	4-nitrodiphenyl and its salts
6	Bis (chloromethyl) ether
7	Beta-naphthylamine and its salts
8	Gum containing benzene in a quantitative amount of more than 5% by volume of the solvent (including dilutants) of the said gum

1.3 Poisonous and Deleterious Substances Control Act, Japan

Japan: Specified Poisonous Substances (by Law)

(YYYY/MM/DD: 2026/06/20)

No.	Chemical Substance Name
1	Octamethyl-pyrophosphoramide
2	Tetraalkyl lead
3	Diethyl-paranitrophenyl-thiophosphate
4	Dimethylethylmercapto ethylthiophosphate
5	Dimethyl-(diethylamido-1-chlorocrotonyl)-phosphate
6	Dimethylparanitrophenyl thiophosphate
7	Tetraethylpyrophosphate
8	Monofluoroacetate
9	Fluoroacetamide
10	In addition to the poisonous substances in the previous items, preparations containing those in the previous items, and other substances with significant toxicity which are designated by Cabinet Order.

Japan: Specified Poisonous Substances (by Cabinet order)

(YYYY/MM/DD: 2026/06/20)

No.	Chemical Substance Name
1	Preparations containing octamethylpyrophosphoramide
2	Preparations containing tetraalkyl lead
3	Preparations containing diethylparanitrophenylthiophosphate
4	Preparations containing dimethylethylmercapto ethylthiophosphate
5	Preparations containing dimethyl-(diethylamido-1-chlorocrotonyl)-phosphate
6	Preparations containing dimethylparanitrophenyl thiophosphate
7	Preparations containing tetraethylpyrophosphate
8	Salts of monofluoroacetic acid and preparations containing it
9	Preparations containing monofluoroacetamide
10	Preparations containing aluminum phosphide and its decomposition promoter

2. Chemicals Subject to Reduction

No.	Chemical Substance Name
1	Nonylphenol and its derivatives
2	PFASs（Per- and polyfluoroalkyl substances） ＊

＊Per- and polyfluoroalkyl substances (PFASs) defined as:
Any substance that contains at least one fully fluorinated methyl (CF3-) or methylene (-CF2-) carbon atom (without any H/Cl/Br/I attached to it).

3. Managed Chemical Substances

3.1 chemSHERPA

Based on current trends in Japan concerning the communication of information on chemical substances contained in products, the Company will, in principle, use chemSHERPA for such information communication.

Please download the latest version of each tool from the website of the CMP.

chemSHERPA
URL : https://cmp-consortium.com/chemsherpa/aboutchemsherpa

3.2 Company-Specific Controlled Substances

Reference Laws and Regulations	Chemical Substance Name	Table Number
Chemical Substances Control Law ; CSCL, Japan	Monitoring Chemical Substances	3.2.1
	Priority Assessment Chemical Substances	
	Specified Existing Chemical Substances * Specified Newly Announced Chemical Substances	
Water Pollution Control Act, Japan	Harmful Substances	3.2.2
	Designated Substances	
	Oil	
Air Pollution Control Act, Japan	Volatile Organic Substances and others	3.2.3
Soil Contamination Countermeasures Act, Japan	Specified Harmful Substances	3.2.4
Dodd–Frank Wall Street Reform and Consumer Protection Act （USA）	Conflict Minerals	3.2.5
Biocidal Products Regulation （EU）	Biocide Substances	3.2.6
EU REACH SVHC	Candidate SVHCs and Newly Added SVHCs （not yet in chemSHERPA）	3.2.7
Many countries	Nonylphenol, Octylphenol, other alkylphenols, and their derivatives	3.2.8
Many countries	Azo Colorants	
Many countries	Polyaromatic Hydrocarbons	
Many countries	Organic Halogenated Substances	
NPO etc.	Palm Oil	
Many countries, NPO etc.	Wood and its related Substances	

NPO etc.	Natural rubber and its related Substances	
Many countries	Nanomaterials	
Many countries, NPO etc.	Microplastics	

*** This standard will be updated to reflect any specified new chemical substances when they are officially announced.**

3.2.1-1 Monitoring Chemical Substances

(YYYY/MM/DD: 2026/06/20)

No.	MITI Number	Chemical Substance Name
1	1-436	Mercury(II) oxide
2	3-430	1-tert-butyl-3,5-dimethyl-2,4,6-trinitrobenzene
3	3-2239	Cyclododeca-1,5,9-triene
4	3-2240	Cyclododecane
6	3-2341	1,1-Bis(tert-butyldioxy)-3,3,5-trimethylcyclohexane
7	3-2572	Tetraphenyltin
8	3-2855	1,3,5-Tribromo-2-(2,3-dibromo-2-methylpropoxy)benzene
9	3-3371	O-(2,4-Dichlorophenyl) O-ethyl phenylphosphonothioate
10	3-3427	1,3,5-Tri-tert-butylbenzene
11	4-18	Polybromobiphenyl(Br:2-5)
12	4-67	Dipentenedimer or its hydrogenated derivatives
13	4-577	2-isopropylbicyclo[4.4.0]decane or 3-isopropylbicyclo[4.4.0]decane
14	4-821	2,6-Di-tert-butyl-4-phenylphenol
15	4-961	Diisopropylnaphthalene
16	4-961	Triisopropylnaphthalene
18	5-3581, 5-3605	2,4-Di-tert-butyl-6-(5-chloro-2H-1,2,3-benzotriazol-2-yl)phenol
20	4-16	Diethylbiphenyl
21	4-41	Hydrogenated terphenyl
22	4-638	Dibenzyltoluene
23	4-16	Triethylbiphenyl
24	5-256	N,N-Dicyclohexyl-1,3-benzothiazole-2-sulfenamide
25	5-3604	2-(2H-1,2,3-Benzotriazol-2-yl)-6-sec-butyl-4-tert-butylphenol

26	3-2835	2,4-Di-tert-butyl-6-[(2-nitrophenyl)diazenyl]phenol
27	3-3247	Perfluoro(1,2-dimethylcyclohexane)
28	4-39	2,2',6,6'-Tetra-tert-butyl-4,4'-methylenediphenol
29	2-2658, 2-2659	Perfluorododecanoic acid
30	2-2658, 2-2659	Perfluorotridecanoic acid
31	2-2658	Perfluorotetradecanoic acid
32	2-2658	Perfluoropentadecanoic acid
33	2-2658	Perfluorohexadecanoic acid
34	2-2366	Perfluoroheptane
35	2-2366	Perfluorooctane
36	5-71	2,2,3,3,4,4,5-Heptafluoro-5-(perfluorobutyl)oxolane and/or 2,2,3,3,4,5,5-heptafluoro-4-(perfluorobutyl)oxolane
37	3-540	4-sec-Butyl-2,6-di-tert-butylphenol
38	4-1263, 5-5112	1,4-Bis(isopropylamino)-9,10-anthraquinone
39	6-1849	alpha-(Difluoromethyl)-omega-(difluoromethoxy)poly[oxy(difluoromethylene)/oxy(tetrafluoroethylene)] (It is limited that a molecular weight of the polymer is 500 or more and 700 or less.)
40	7-475	2,2,4,4,6,6,8,8-Octamethyl-1,3,5,7,2,4,6,8-tetraoxatetrasilocane (synonym: Octamethylcyclotetrasiloxane)
41	7-475	2,2,4,4,6,6,8,8,10,10,12,12-Dodecamethyl-1,3,5,7,9,11-hexaoxa-2,4,6,8,10,12-hexasilacyclododecane (synonym: Dodecamethylcyclohexasiloxane)

3.2.1-2 Priority Assessment Chemical Substances

(YYYY/MM/DD: 2026/06/20)

No.	MITI Number	Chemical Substance Name
1	1-172	Carbon disulfide
2	1-374	Hydrazine
3	2-6	n-Hexane
4	2-17	1,3-Butadiene
5	2-20	Isoprene
6	2-35	Chloromethane (synonym: Methyl chloride)
8	2-37	Chloroform
10	2-53	Chloroethane
11	2-54	1,2-Dichloroethane
15	2-129	Methylamine
16	2-134	Dimethylamine
17	2-186	Tetramethylammonium hydroxide
18	2-191	Nitromethane
19	2-218	Ethylene oxide
22	2-275	Epichlorohydrin
23	2-405	Ethylene glycol monomethyl ether
24	2-410	2-(1-Methylethoxy)ethanol
25	2-482	Formaldehyde
26	2-485	Acetaldehyde
28	2-728	Vinyl acetate
31	2-987	Methyl acrylate
32	2-988	Ethyl acrylate
34	2-1014	Acrylamide
35	2-1025	Methacrylic acid
36	2-1263	Ethylenediaminetetraacetic acid
38	2-1508	Acetonitrile
39	2-1513	Acrylonitrile
40	2-1733	Thiourea
41	2-1820	Tetraethylthiuram disulfide (synonym: Disulfiram)
42	2-1848	N,N'-Ethylenebis(thiocarbamoylthiozinc) bis(N,N-dimethyldithiocarbamate) (synonym: Polycarbamate)

43	2-2863	Hexamethylene diisocyanate
45	3-1	Benzene
46	3-2, 3-60	Toluene
47	3-4	Styrene
48	3-5, 3-8	Isopropenylbenzene (synonym: alpha-Methylstyrene)
49	3-7, 3-3427	1,2,4-Trimethylbenzene
50	3-28, 3-60	Ethylbenzene
51	3-39, 3-102	Benzyl chloride
53	3-41	p-Dichlorobenzene
54	3-105	Aniline
55	3-185	m-Phenylenediamine
56	3-185	o-phenylenediamine
59	3-436	Nitrobenzene
60	3-442	p-Chloronitrobenzene
62	3-481	Phenol
64	3-540, 9-1805	2,6-Di-tert-butyl-4-methylphenol
65	3-543	Pyrocatechol (synonym: Catechol)
66	3-1307	Bis(2-ethylhexyl) phthalate
68	3-1334	Terephthalic acid
69	3-1362	1,2,4-Benzenetricarboxylic acid 1,2-anhydride
70	3-4280	Octadecylamine(N-B)triphenylborane
71	3-4392	[3-(2-Ethylhexyloxy)propylamine]triphenylboron
74	4-118	Methylenebis(4,1-phenylene) diisocyanate
75	4-123	4,4'-(Propane-2,2-diyl)diphenol (synonym: 4,4'-Isopropylidenediphenol or Bisphenol A)
76	4-311	Naphthalene
77	4-634	Dicyclopentadiene
80	5-839	1,4-Dioxane
81	5-859	Morpholine
82	5-1097	epsilon-Caprolactam

84	5-6271	Bis(2-sulfidopyridin-1-olato)copper
85	5-6783	Dipotassium piperazine-1,4-bis(carbodithioate)
87	7-1279, 7-1283	Polycondensate of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (synonym: Bisphenol A type epoxy resin) (liquid only)
91	2-302, 2-354	Diethanolamine
92	2-689	Peracetic acid
93	2-690	Acetic anhydride
94	2-984	Acrylic acid
95	2-1146	Sodium chloroacetate
96	3-2233	Cyclohexane
97	1-375	Hydroxylamine
102	2-207	Isopropyl alcohol
105	2-230	Ethylene glycol
106	2-234	Propane-1,2-diol
107	2-301	2-Aminoethanol
108	2-308, 2-353	Triethanolamine
109	2-407, 2-2424, 7-97	2-Butoxyethanol
110	2-422	2-(2-Ethoxyethoxy)ethanol
112	2-510	Glyoxal
116	2-542	Methyl isobutyl ketone
117	2-670	Formic acid
118	2-740	2-Butoxyethyl acetate
119	2-1145	Chloroacetic acid
122	2-1673	Dimethyl sulfate
124	2-3049	1-Butanol
125	3-3, 3-60	Xylene
126	3-22	Cumene
131	3-2376	Cyclohexanone
132	3-2381, 3-2389	3,5,5-Trimethylcyclohex-2-en-1-one
133	3-2387	(E)-4-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-3-en-2-one
134	3-2667	3-(4-tert-Butylphenyl)-2-methylpropanal

135	5-53	Tetrahydrofuran
136	5-113	N-Methyl-2-pyrrolidone
137	5-1044	1,3,5-Trichloro-1,3,5-triazinane-2,4,6-trione
138	5-2742	Disodium 2,2'-vinylenebis[5-(4-morpholino-6-anilino-1,3,5-triazin-2-ylamino)benzenesulfonate] (synonym: Fluorescent-260)
139	5-3725, 9-1110	(T-4)-Bis[2-(thioxo-kappaS)-pyridin-1(2H)-olato-kappaO]zinc(II)
140	3-1884, 3-1906, 3-1949	Sodium alkylbenzenesulfonate(The alkyl is limited to the substituent groups derived from linear alkane of C=10-14.)
143	1-174	Silicon carbide
144	1-242	Nickel(II) dichloride
145	1-284	Chromium(VI) trioxide
146	1-393	Nickel(II) bis(sulfamate)
147	1-639, 1-648	Zirconium dichloride oxide
148	1-813	Nickel(II) sulfate
149	2-123	3-Chloropropene (synonym: Allyl chloride)
150	2-407, 2-2424, 7-97	2-Isobutoxyethanol
151	2-759	Allyl heptanoate
152	2-1277	Sodium salts of 2,2',2''-nitrilotriacetic acid
153	2-2509, 2-2521	N-[3-(Dimethylamino)propyl]stearamide
156	3-499, 4-57	Cresol
157	3-503	4-(1,1,3,3-Tetramethylbutyl)phenol
159	5-1043	Sodium 3,5-dichloro-2,4,6-trioxo-1,3,5-triazinan-1-ide (synonym: Sodium dichloroisocyanurate)
161	6-901	Sodium salts of polymer of acrylic acid
162	9-1741	Coal tar
163	9-1744	Coal tar pitch
164	2-133, 2-176, 2-185, 8-	Alkan-1-amine(C=8,10,12,14,16,18, normal chain), (Z)-Octadec-9-en-1-amine or (9Z,12Z)-Octadeca-9,12-dien-1-amine

	310, 8-342	
165	2-176	N,N-Dimethyldodecylamine
166	2-184, 9-795, 9-1971	Salt of hexadecyl(trimethyl)ammonium
167	2-184, 9-1971	Salt of didecyl(dimethyl)ammonium
168	2-184, 9-1971	Salt of bis(alkyl(C=12,14,16,18,20, normal chain))(dimethyl)ammonium
169	2-198	N,N-Dimethylalkan-1-amine oxide (C=10,12,14,16,18, normal chain), (Z)-N,N-dimethyloctadec-9-en-1-amine oxide or (9Z,12Z)-N,N-dimethyloctadeca-9,12-dien-1-amine oxide
171	2-217, 2-3704	Alkanol(C=10-16) (only the substances that contain any of C=11-14 components)
172	2-611, 7-973	Sodium salt of saturatedfatty acid(C=8-18, normal chain) or unsaturated fatty acid(C=16-18, normal chain)
173	2-814, 2-827, 2-2503, 7-87, 8-311	N,N-Bis(2-hydroxyethyl)alkanamide(C=8,10,12,14,16,18, normal chain), (Z)-N,N-bis(2-hydroxyethyl)octadec-9-enamide or (9Z,12Z)-N,N-bis(2-hydroxyethyl)octadeca-9,12-dienamide
174	2-1290, 2-2707, 9-2027	[(3-Alkanamido(C=8,10,12,14,16,18, normal chain)propyl)(dimethyl)ammonio]acetate or (Z)-{[3-(octadec-9-enamido)propyl](dimethyl)ammonio}acetate
175	2-1639, 2-2807, 9-2038	Sodium alkenesulfonate(C=14-16) or sodium hydroxyalkanesulfonate(C=14-16)
176	6-3223	Copolymer of acrylamide / 2-acrylamido-2-hydroxyacetic acid / [2-(acryloyloxy)ethyl](benzyl)(dimethyl)ammonium chloride / 2-(dimethylamino)ethyl methacrylate / benzyl[2-(methacryloyloxy)ethyl](dimethyl)ammonium chloride / 2-methylidenesuccinic acid (It is limited that the polymer is insoluble in fat-soluble solvent and usual solvent, and the content of the components having molecular weight less than 1,000 is 1% or less.)
177	1-417	Nickel(II) hydroxide

178	2-611, 9-1677	Potassium salt of saturated fatty acid(C=8-18, normal chain) or potassium salt of unsaturated fatty acid(C=18, normal chain)
179	2-1249	Potassium diethyldithiocarbamate
180	2-1291, 2-2709	2-(N-Dodecyl-N,N-dimethylammonio)acetate
182	2-2795	2,2-Dibromo-2-cyanoacetamide
184	3-326, 3-2694	Salt of alkyl(C=12-16)(benzyl)(dimethyl)ammonium
185	3-1585	Hexyl 2-hydroxybenzoate
187	5-683	4,6,6,7,8,8-Hexamethyl-1,3,4,6,7,8-hexahydrocyclopenta[g]isochromene
188	7-97	alpha-Alkyl(C=9-11)-omega-hydroxypoly(oxyethylene) (It is limited that a number-average molecular weight of the polymer is less than 1,000.)
189	7-97	alpha-Alkyl(C=12-15)-omega-hydroxypoly(oxyethylene) (It is limited that a number-average molecular weight of the polymer is less than 1,000.)
190	2-141	Triethylamine
191	1-124	Phosgene
192	1-158	Sodium cyanide
193	2-184, 9-1971	Salts of trimethyl(octadecyl)ammonium
196	2-759	Allyl hexanoate
199	3-2657	2-Benzylideneoctanal
201	3-7, 3-3427	1,3,5-Trimethylbenzene
203	3-543	Hydroquinone
204	4-1911	Reaction products of 3-methylpent-3-en-2-one and 3-methylidene-7-methylocta-1,6-diene, which consists of mixture of 1-(2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydro-2-naphthyl)ethanone, 1-(2,3,8,8-tetramethyl-1,2,3,4,6,7,8,8a-octahydro-2-naphthyl)ethanone and 1-(2,3,8,8-tetramethyl-1,2,3,5,6,7,8,8a-octahydro-2-naphthyl)ethanone as a major component (80% or more)
205	5-1089	Oxacyclohexadecan-2-one
206	5-1104, 5-3880	1,4-Dioxacycloheptadecane-5,17-dione

207	5-3560	3-(1,3-Benzodioxol-5-yl)-2-methylpropanal
208	5-67, 9-137	5-Heptyloxolan-2-one
209	9-1735	Creosote oil
212	2-10	2,2,4,6,6-Pentamethylheptane
213	2-1620, 2-1623	Sodium 1,4-bis[(2-ethylhexyl)oxy]-1,4-dioxobutane-2-sulfonate
214	2-1679	Sodium alkyl(C=8-18) sulfate
216	2-184	Salts of dimethyl[bis(octadecen-1-yl)]ammonium
217	2-2936, 2-4162	(1-Hydroxyethane-1,1-diyl)diphosphonic acid or its potassium or sodium salt
218	2-68	Mono(or poly)chloroalkane(C=14-17, normal chain)
219	3-2522, 3-2613, 3-3363	Tritolyl phosphate
220	4-38, 4-244	Dimethyl(1-phenylethyl)benzene
221	5-6165	4,5-Dichloro-2-octylisothiazol-3(2H)-one
222	7-110, 8-55	Mono(or poly)ether of (mono ester of anhydro(or dianhydro)glucitol and dodecanoic acid) and alpha-hydro-omega-hydroxypoly(oxyethylene)
223	7-155	Onium salt or sodium salts of alpha-(alkyl(C=10-16))-omega-(sulfoxy)poly[(oxyethylene)(or oxyethylene/oxy(methylethylene))] (It is limited that the average of repeating number of the repeating unit is 1-4.)
224	7-1951, 7-1961	Polycondensation products of adipic acid / N-(2-aminoethyl)(or N,N'-bis(2-aminoethyl))ethane-1,2-diamine / 2-(chloromethyl)oxirane
225	7-872	alpha-(Isocyanatobenzyl)-omega-(isocyanatophenyl)poly[(isocyanatophenylene)methylene]
226	8-118	Salts of {poly[2-hydroxy-3-(trimethylammonio)propyl] ether of starch}
227	9-1958	Sodium (alkyl(C=12, branched chain))(alkyl(C=12, branched chain)phenoxy)benzenesulfonate (or sodium (alkyl(C=12, branched chain)phenoxy)benzenesulfonate or sodium (alkyl(C=12, branched chain))(phenoxy)benzenesulfonate or disodium (alkyl(C=12, branched cahin))[(alkyl(C=12, branched

		chain))(sulfonato)phenoxy]benzenesulfonate or disodium (alkyl(C=12, branched chain))(sulfonatophenoxy)benzenesulfonate)
228	2-73	1-Bromopropane
229	2-184, 9-1971	Salt of N,N,N-trimethyldodecane-1-aminium
231	2-642, 2-766	3-Hydroxy-2,2-bis(hydroxymethyl)propyl octadecanoate
232	3-2311, 3-2345, 3-2356	2-tert-Butylcyclohexyl acetate
233	5-31	Furfuryl alcohol
234	6-898	Polymer of acrylic acid
235	7-114	Sodium alpha-(carboxylatomethyl)-omega-(dodecyloxy)poly(oxyethane-1,2-diyl) (The repeating number of repeating unit is an integer from 1 to 100.)
236	7-264	alpha-Hydro-omega-dodecanamidopoly(oxyethane-1,2-diyl) (The repeating number of repeating unit is an integer from 2 to 101.)
238	2-176	N-Methyldidecan-1-ylamine
239	2-184, 9-1971	Salt of N-ethyl-N,N-dimethyltetradecan-1-aminium
240	2-413	1,1'-Oxydi(propan-2-ol)
241	2-769, 2-2491	2-[(Dodecanoyloxy)methyl]-2-ethylpropane-1,3-diyl di(dodecanoate)
245	3-1023	2,2,2-Trichloro-1-phenylethyl acetate
247	3-4307	Sodium dodecanoyloxybenzenesulfonate
249	4-1952	Cyclohexylidene(phenyl)acetonitrile
250	7-97	[alpha-(Alkyl(C=16-18))-omega-hydroxypoly(oxyethane-1,2-diyl) or alpha-(alkenyl(C=16-18))-omega-hydroxypoly(oxyethane-1,2-diyl)] (It is limited that the number-average molecular weight of the polymer is less than 1,000.)
251	9-1473	Sodium 1-oxo-1lambda(5)-pyridine-2-thiolate
252	1-138	Hydrogen cyanide
253	3-1301	Diethyl phthalate
254	3-4387	5-Chloro-2-(4-chlorophenoxy)phenol

257	-	Salt of cation of poly(azanediylcarbonimidoylazanediylcarbonimidoylazanediylhexane-1,6-diyl) (It is limited that the cation is formed by proton addition to the nitrogen atoms.)* It stands for the salt of cation formed by proton addition to the nitrogen atoms of ''Polyhexamethylenebiguanidine'' (MITI_Number 7-1729)
258	2-1289, 2-1291, 2-2709	(N,N-Dimethyltetradecan-1-aminiumyl)acetate
259	2-1640	Sodium alkanesulfonate(C=10-18), sodium hydrogen alkanedisulfonate(C=10-18) or disodium alkanedisulfonate(C=10-18)
260	2-3065	Sodium 1-methoxy-1-oxooctadecane-2-sulfonate or sodium 1-methoxy-1-oxohexadecane-2-sulfonate
261	2-4053	Mixture of 2-{dimethyl[3-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-sulfonamido)propyl]ammonio}acetate and N,N-dimethyl-3-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-sulfonamido)propylamine, which consists of 2-{dimethyl[3-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-sulfonamido)propyl]ammonio}acetate as a major component (95% or more)
262	2-546	Butan-2-one oxime
263	4-1977	Reaction products of 2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptane and phenol, which consists of 1:1 reaction products of 2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptane and phenol as a major component (60% or more) (It is limited that the molecular weight is 460 or less.)
264	2-1241, 2-1747	Diazenedicarboxamide
265	5-465	Methyl (1H-1,3-benzimidazol-2-yl)carbamate(synonym: Carbendazim)
266	7-60	alpha,alpha'-[(Alkyl(C=8-18, normal chain)azanediyl)di(ethane-2,1-diyl)]bis[omega-hydroxypoly(oxyethane-1,2-diyl)](The repeating number of repeating unit is an integer 0 or more.) (It is limited that the number-average molecular weight of the polymer is less than 1,000.)
267	7-72	Salt of {ester of 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methylethan-1-aminium and [saturated fatty acid(C=10-20, normal chain)(or unsaturated fatty acid(C=16-18, normal chain))]}
268	2-1265	Sodium salt of 2,2',2'',2'''-(ethane-1,2-diyldinitrilo)tetraacetic acid

269	7-60	alpha,alpha'-[(Alkyl(C=8-18, normal chain)azanediyl)bis(ethane-2,1-diyl(or methylethane-2,1-diyl))]bis{omega-hydroxypoly[oxyethane-1,2-diyl/oxy(methylethane-1,2-diyl)]} (The repeating number of repeating unit is an integer 1 or more.) (It is limited that the number-average molecular weight of the polymer is less than 1,000.)
270	7-66	Salt of {ester of 2-hydroxy-N-(2-hydroxyethyl)-N,N-dimethylethan-1-aminium and [saturated fatty acid(C=10-18, normal chain)(or unsaturated fatty acid(C=18, normal chain))]} or salt of {ester of 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethylpropan-1-aminium and [saturated fatty acid(C=10-18, normal chain)(or unsaturated fatty acid(C=18, normal chain))]}
271	7-97	alpha-(Alkyl(C=6-18))-omega-hydroxypoly[oxyethane-1,2-diyl/oxy(methylethane-1,2-diyl)](It is limited that the number-average molecular weight of the polymer is less than 1,000.)
272	7-97	alpha-Hydro-omega-[(3-methylbut-3-en-1-yl)oxy]poly(oxyethane-1,2-diyl) (The repeating number of repeating unit is an integer 1 or more.) (It is limited that the number-average molecular weight of the polymer is less than 1,000.)
273	7-141	[alpha-(Alkanoyl(C=8-18, normal chain))-omega-methoxypoly(oxyethane-1,2-diyl) or alpha-(alkenoyl(C=8-18, normal chain))-omega-methoxypoly(oxyethane-1,2-diyl)] (The repeating number of repeating unit is an integer 1 or more.) (It is limited that the number-average molecular weight of the polymer is less than 1,000.)
274	2-343	Salt of N,N,N-trimethyl-1-oxiranylmethanaminium
275	2-414	3-[(2-Ethylhexyl)oxy]propane-1,2-diol
276	2-422,7-97	2-(2-Butoxyethoxy)ethan-1-ol (synonym: Diethylene glycol monobutyl ether)
277	2-723	N,N-Dimethylacetamide
278	2-726	Ethyl acetate
279	2-727	n-Propyl acetate
280	2-1667, 2-4305	Reaction products of sodium hydrogen sulfite and (chloromethyl)oxirane and N,N-dimethyldodecan-1-amine, which consists of 3-(N,N-dimethyldodecan-1-aminiumyl)-2-hydroxypropane-1-sulfonate as a major component (80% or more)

281	2-2807, 9-2038	Potassium octadecenesulfonate or potassium hydrogen octadecenedisulfonate or potassium hydroxyoctadecanesulfonate or dipotassium octadecenedisulfonate
282	2-2807, 9-2038	Potassium hydrogen hexadecenedisulfonate or potassium hydroxyhexadecanesulfonate or potassium hexadecenesulfonate or dipotassium hexadecenedisulfonate
283	3-1736, 3-1761	Methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propanoate
284	3-2492	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
285	5-3881	1,4-Dioxacyclohexadecane-5,16-dione
286	1-129	Copper(I) thiocyanate
287	2-184, 9-1971	Salt of N-decyl-N-ethyl-N-methyldecan-1-aminium
288	7-88, 7-319, 7-1392	alpha-Hydro-omega-{[(9Z)-octadec-9-enoyl]oxy}poly(oxyethane-1,2-diyl) (The repeating number of repeating unit is an integer 1 or more.)
289	1-543	Diantimony trioxide(III)
290	2-153	Hexamethylenediamine
291	5-40	Furfural
292	5-710	Pyridine
293	5-3641, 5-6281, 5-6337	Alkyl (C=8-16, normal chain) D-glucopyranoside or (Alkyl (C=8-16, normal chain) glycoside of D-glucopyranan (limited to those with glycosidic bonds between sugars))
294	9-1845	1,2-Benzothiazoline-3-one

3.2.1-3 Specified General Chemical Substances

Japan CSCL: Specified Existing Chemical Substances

(YYYY/MM/DD: 2026/06/20)

No.	MITI Number	Chemical Substance Name
1	2-4319	Mixture of (1-)ammonium diaquabis(oxalato-kappa(2)O,O') oxidoniobate and (1-)ammonium diaquabis(oxalato-kappa(2)O,O') oxidoniobate--water(1/n)
2	2-4324	Disilver ethynediide
3	3-4740	(eta(5)-Cyclopentadienido)tris(N-methylmethanaminido-kappaN)zirconium
4	5-7124	2-(4-Aminophenyl)-1,3-benzoxazol-5-amine
5	5-7137	Reaction products of hydrogen peroxide and 1,4-bis{[(prop-2-en-1-yl)oxy]methyl}cyclohexane, which consists of 2,2'-[cyclohexane-1,4-diylbis(methyleneoxymethylene)]bis(oxirane) as a major component(80% or more)
6	5-7139	Bis[4-({6-[(prop-2-enoyl)oxy]hexyl}oxy)phenyl] 2-{[(1,3-benzothiazol-2-yl)(6-{[(naphthalen-1-yl)acetyl]oxy}hexyl)hydrazinylidene]methyl}-1,4-phenylene bis[(1r,4r)-cyclohexane-1,4-dicarboxylate]
7	5-7143	5,11,14,17-Tetrakis[(dimethylsilyl)oxy]-1,3,5,7,9,11,14,17-octaphenyltricyclo[7.3.3.3(3,7)]octasiloxane
8	5-7146	4-[1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole
9	6-4161	Copolymer of 2-(dimethylamino)ethyl 2-methylprop-2-enoate / N-benzyl-N,N-dimethyl-2-[(2-methylprop-2-enoyl)oxy]ethan-1-aminium chloride (It is limited that the content of the components having molecular weight less than 1,000 is 1% or less.)

3.2.2 Water Pollution Control Act, Japan

(YYYY/MM/DD: 2026/06/20)

3.2.2-1 Harmful Substances

No.	Chemical Substance Name
1	Cadmium and its compounds
2	Cyanide compounds
3	Organic phosphorus compounds (diethyl p-nitrophenol thiophosphate (parathion) , dimethyl p-nitrophenol thiophosphate (methyl parathion) , dimethyl ethylmercaptoethyl thiophosphate (demeton methyl) and ethyl-p-nitrophenylthionobenzenephosphate (EPN) only)
4	Lead and its compounds
5	Hexavalent chromium compounds
6	Arsenic and its compounds
7	Mercury , alkyl mercury and other mercury compounds
8	PCBs
9	Trichloroethylene
10	Tetrachloroethylene
11	Dichloromethane
12	Carbon tetrachloride
13	1, 2-Dichloroethane
14	1, 1-Dichloroethylene
15	1, 2-Dichloroethylene
16	1, 1, 1-Trichloroethane
17	1, 1, 2-Trichloroethane
18	1, 3-Dichloropropene
19	Tetramethylthiuram disulfide (Thiuram)
20	2-Chloro-4,6-bis(ethylamino)-S-triazine (Simazine)
21	S-(4-Chlorobenzyl) N,N-diethylthiocarbamate (Thiobencarb)
22	Benzene
23	Selenium and its compounds
24	Boron and its compounds
25	Fluorine and its compounds
26	Ammonia, ammonium compounds, nitrite compounds and nitrate compounds
27	Vinyl chloride monomer
28	1,4-Dioxane

3.2.2-2 Designated Substances

No.	Chemical Substance Name
1	Formaldehyde
2	Hydrazine
3	Hydroxylamine
4	Hydrogen peroxide
5	Hydrogen chloride
6	Sodium hydroxide
7	Acrylonitrile
8	Potassium hydroxide
9	Acrylamide
10	Acrylic acid
11	Sodium hypochlorite
12	Carbon disulfide
13	Ethyl acetate
14	Methyl t-butyl ether; MTBE
15	Sulfuric acid
16	Phosgene
17	1,2-Dichloropropane
18	Chlorosulfonic acid
19	Thionyl dichloride
20	Chloroform
21	Dimethyl sulfate
22	Chloropicrin
23	Dimethyl 2,2-dichlorovinyl phosphate; Dichlorvos; DDVP
24	Dimethyl ethylsulfinyl isopropyl thiophosphate; Oxydeprofos; ESP
25	Toluene
26	Epichlorohydrin
27	Styrene
28	Xylene
29	p-Dichlorobenzene
30	2-sec-Butylphenyl N-methylcarbamate; fenobucarb; BPMC
31	3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide; propyzamide
32	Tetrachloroisophthalonitrile; chlorothalonil; TPN

33	O,O-Dimethyl O-3-methyl-4-nitrophenyl phosphorothioate; fenitrothion; MEP
34	S-Benzyl O,O-diisopropyl phosphorothioate; iprobenfos; IBP
35	Diisopropyl 1,3-dithiolan-2-ylidenemalonate; isoprothiolane
36	O,O-Diethyl O-2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate; diazinon
37	O,O-Diethyl O-5-phenyl-3-isoxazolyl phosphorothioate; isoxathion
38	2,4,6-Trichlorophenyl-4'-nitrophenylether; Chlornitrofen; CNP
39	O,O-Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate; chlorpyrifos
40	Bis(2-ethylhexyl) phthalate
41	Ethyl (Z)-3-[N-benzyl-N-[[methyl(1-methylthioethylideneaminooxycarbonyl)amino]thio]amino]propionate; alanycarb
42	1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene; Chlordane
43	Bromine
44	Aluminium and its compounds
45	Nickel and its compounds
46	Molybdenum and its compounds
47	Antimony and its compounds
48	Chloric acid and its salts
49	Bromic acid and its salts
50	Chromium and its compounds, except for chromium(VI) compounds
51	Manganese and its compounds
52	Iron and its compounds
53	Copper and its compounds
54	Zinc and its compounds
55	Phenols and its salts
56	1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane; hexamethylenetetramine
57	Aniline
58	Perfluorooctanoic acid (PFOA) and its salts
59	Perfluoro(octane-1-sulfonic acid) (PFOS) and its salts
60	Linear alkylbenzenesulfonic acid and its salts

3.2.2-3 Oil

No.	**Chemical Substance Name**
1	Crude oil
2	Heavy oil

3	Lubricating oil
4	Diesel oil
5	Kerosene
6	Gasoline
7	Animal and vegetable oils

3.2.3 Japan Air Pollution Control Law

(YYYY/MM/DD: 2026/06/20)

Classification	Cabinet Order Number	Cabinet Order Name
Soot and Smoke (Sulfur Oxides)	Article 2-1-(i) of Act	Sulfur oxides generated by the combustion of fuel or other items.
Soot and Smoke (Soot and Dust)	Article 2-1-(ii) of Act	Soot and dust generated by the combustion of fuel or other items or by the use of electricity as a source of heat.
Soot and Smoke (Hazardous Substances)	Article 2-1-(iii) of Act	Cadmium, chlorine, hydrogen fluoride, lead, and other substances (excluding those under item (i)) that are generated as a result of combustion, synthesis, decomposition, or other processes (excluding mechanical processes), that are likely to harm human health or living conditions, and that are specified by a Cabinet Order.
Soot and Smoke (Hazardous Substances)	Article 1-(i) of Cabinet order	Cadmium and its compounds
	Article 1-(ii) of Cabinet order	Chlorine and hydrogen chloride
	Article 1-(iii) of Cabinet order	Fluorine, hydrogen fluoride and silicon fluoride
	Article 1-(iv)of Cabinet order	Lead and its compounds
	Article 1-(v) of Cabinet order	Nitrogen oxides
Designated Soot and Smoke	Article 7-2 of Cabinet order	Sulfur oxides and nitrogen oxides
Volatile Organic Compounds (VOC)	Article 2-4 of Act	Any organic compound (excluding substances specified by a Cabinet Order as not being sources from which suspended particulate matter or oxidants are generated) that is in a gaseous state at the time of its emission or dispersal into the atmosphere.

Substances Excluded from Volatile Organic Compounds (VOC)	Article 2-2-1 of Cabinet order	methane
	Article 2-2-2 of Cabinet order	chlorodifluoromethane (HCFC-22)
Substances Excluded from Volatile Organic Compounds (VOC)	Article 2-2-3 of Cabinet order	2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124)
	Article 2-2-4 of Cabinet order	1,1-dichloro-1-fluoroethane (HCFC-141b)
	Article 2-2-5 of Cabinet order	1-chloro-1,1-difluoroethane (HCFC-142b)
	Article 2-2-6 of Cabinet order	3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)
	Article 2-2-7 of Cabinet order	1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)
	Article 2-2-8 of Cabinet order	1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC-43-10mee)
Particulates	Article 2-7 of Act	substances that are generated or dispersed as a result of any mechanical process such as crushing or sorting materials, or as a result of the accumulation of such materials.
Specified Particulates	Article 2-4 of Cabinet order	Asbestos
Ordinary Particulates	Article 2-8 of Act	Particulates other than specified particulates.
Mercury and its Compounds	Article 2-13 of Act	Mercury and its compounds
Automobile Exhaust	Article 4-1 of Cabinet order	Carbon monoxide
	Article 4-2 of Cabinet order	Hydrocarbons
	Article 4-3 of Cabinet order	Lead compounds
	Article 4-4 of Cabinet order	Nitrogen oxides

	Article 4-5 of Cabinet order	Particulate matter
Specified Substances	Article 10-1 of Cabinet order	Ammonia
	Article 10-2 of Cabinet order	Hydrogen fluoride
	Article 10-3 of Cabinet order	Hydrogen cyanide
	Article 10-4 of Cabinet order	Carbon monoxide
	Article 10-5 of Cabinet order	Formaldehyde
	Article 10-6 of Cabinet order	Methanol
	Article 10-7 of Cabinet order	Hydrogen sulfide
	Article 10-8 of Cabinet order	Hydrogen phosphide
	Article 10-9 of Cabinet order	Hydrogen chloride
	Article 10-10 of Cabinet order	Nitrogen dioxide
	Article 10-11 of Cabinet order	Acrolein
	Article 10-12 of Cabinet order	Sulfur dioxide
	Article 10-13 of Cabinet order	Chlorine
	Article 10-14 of Cabinet order	Carbon disulfide
	Article 10-15 of Cabinet order	Benzene
	Article 10-16 of Cabinet order	Pyridine
	Article 10-17 of Cabinet order	Phenol

	Article 10-18 of Cabinet order	Sulfuric acid (including sulfur trioxide)
	Article 10-19 of Cabinet order	Silicon fluoride
	Article 10-20 of Cabinet order	Phosgene
	Article 10-21 of Cabinet order	Selenium dioxide
	Article 10-22 of Cabinet order	Chlorosulfonic acid
	Article 10-23 of Cabinet order	Yellow phosphorus
	Article 10-24 of Cabinet order	Phosphorus trichloride
	Article 10-25 of Cabinet order	Bromine
	Article 10-26 of Cabinet order	Nickel carbonyl
	Article 10-27 of Cabinet order	Phosphorus pentachloride
Specified Substances	Article 10-28 of Cabinet order	Mercaptan
Hazardous Air Pollutants	Article 2-16 of Act	A substance is likely to harm human health if it is ingested continuously and that causes air pollution (other than soot and smoke (but only those set forth in the items set forth under paragraph (1), items (i) and (iii)), specified particulates, and mercury and mercury compounds).
Hazardous Air Pollutants (Designated Substances)	3-1 of Supplementary Provisions of Cabinet Order	Benzene
	3-2 of Supplementary	Trichloroethylene

	Provisions of Cabinet Order	
	3-3 of Supplementary Provisions of Cabinet Order	Tetrachloroethylene
Substances that may be classified as Hazardous Air Pollutants	1 of Central Environment Council 9th Report (Appendix 1)	Zinc and its compounds
	2 of Central Environment Council 9th Report (Appendix 1)	Acrylamide
	3 of Central Environment Council 9th Report (Appendix 1)	Ethyl acrylate
	4 of Central Environment Council 9th Report (Appendix 1)	2-Hydroxyethyl acrylate
	5 of Central Environment Council 9th Report (Appendix 1)	Methyl acrylate
Substances that may be classified as Hazardous Air Pollutants	6 of Central Environment Council 9th Report (Appendix 1)	Acrylonitrile
	7 of Central Environment Council 9th Report (Appendix 1)	Acrolein

	8 of Central Environment Council 9th Report (Appendix 1)	Acetaldehyde
	9 of Central Environment Council 9th Report (Appendix 1)	Acetonitrile
	10 of Central Environment Council 9th Report (Appendix 1)	o-Anisidine
	11 of Central Environment Council 9th Report (Appendix 1)	Aniline
	12 of Central Environment Council 9th Report (Appendix 1)	3-Amino-1H-1,2,4-triazole; Amitrole
	13 of Central Environment Council 9th Report (Appendix 1)	1-Allyloxy-2,3-epoxypropane
	14 of Central Environment Council 9th Report (Appendix 1)	Antimony and its compounds
Substances that may be classified as Hazardous Air Pollutants	15 of Central Environment Council 9th Report (Appendix 1)	3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate
	16 of Central Environment Council 9th Report (Appendix 1)	Isobutyraldehyde

	17 of Central Environment Council 9th Report (Appendix 1)	Isoprene
	18 of Central Environment Council 9th Report (Appendix 1)	4,4'-Isopropylidenediphenol; Bisphenol A
	19 of Central Environment Council 9th Report (Appendix 1)	O-Ethyl-O-(3-methyl-4-methylthiophenyl) N-isopropylaminophosphonate; Fenamiphos
	20 of Central Environment Council 9th Report (Appendix 1)	Isopropenylbenzene; alpha-Methylstylene
	21 of Central Environment Council 9th Report (Appendix 1)	Indium and its compounds
	22 of Central Environment Council 9th Report (Appendix 1)	Indeno[1,2,3-cd]pyrene
	23 of Central Environment Council 9th Report (Appendix 1)	2-Ethylhexanoic acid
Substances that may be classified as Hazardous Air Pollutants	24 of Central Environment Council 9th Report (Appendix 1)	Ethylbenzene
	25 of Central Environment Council 9th Report (Appendix 1)	Ethylenimine

	26 of Central Environment Council 9th Report (Appendix 1)	Ethylene glycol monoethyl ether acetate; 2-Ethoxyethyl acetate
	27 of Central Environment Council 9th Report (Appendix 1)	Ethylenediamine
	28 of Central Environment Council 9th Report (Appendix 1)	Ethylenediaminetetraacetic acid
	29 of Central Environment Council 9th Report (Appendix 1)	2-Ethoxyethanol; Ethylene glycol monoethyl ether
	30 of Central Environment Council 9th Report (Appendix 1)	Epichlorohydrin
	31 of Central Environment Council 9th Report (Appendix 1)	1,2-Epoxybutane
	32 of Central Environment Council 9th Report (Appendix 1)	2,3-Epoxy-1-propanol
Substances that may be classified as Hazardous Air Pollutants	33 of Central Environment Council 9th Report (Appendix 1)	2,3-Epoxypropyl phenyl ether
	34 of Central Environment Council 9th Report (Appendix 1)	Allyl chloride; 3-Chloropropene

	35 of Central Environment Council 9th Report (Appendix 1)	Iron(III) trichloride
	36 of Central Environment Council 9th Report (Appendix 1)	Chlorinated paraffin (C=10-13)
	37 of Central Environment Council 9th Report (Appendix 1)	Vinyl chloride monomer; Chloroethylene; Vinyl chloride
	38 of Central Environment Council 9th Report (Appendix 1)	Benzyl chloride
	39 of Central Environment Council 9th Report (Appendix 1)	Methyl chloride; Chloromethane
	40 of Central Environment Council 9th Report (Appendix 1)	1-Octanol
	41 of Central Environment Council 9th Report (Appendix 1)	Catechol; Pyrocatechol
Substances that may be classified as Hazardous Air Pollutants	42 of Central Environment Council 9th Report (Appendix 1)	epsilon-Caprolactam
	43 of Central Environment Council 9th Report (Appendix 1)	Xylene

	44 of Central Environment Council 9th Report (Appendix 1)	Quinoline
	45 of Central Environment Council 9th Report (Appendix 1)	Silver and its compounds
	46 of Central Environment Council 9th Report (Appendix 1)	Glyoxal
	47 of Central Environment Council 9th Report (Appendix 1)	Chrysene; Benzo[a]phenanthrene
	48 of Central Environment Council 9th Report (Appendix 1)	Glutaraldehyde
	49 of Central Environment Council 9th Report (Appendix 1)	Chromium and its compounds
	50 of Central Environment Council 9th Report (Appendix 1)	Chloroaniline
Substances that may be classified as Hazardous Air Pollutants	51 of Central Environment Council 9th Report (Appendix 1)	Chloroacetic acid
	52 of Central Environment Council 9th Report (Appendix 1)	1-Chloro-2,4-dinitrobenzene

	53 of Central Environment Council 9th Report (Appendix 1)	Chlorodibromomethane; Dibromochloromethane
	54 of Central Environment Council 9th Report (Appendix 1)	p-Chloronitrobenzene; p-Nitrochlorobenzene
	55 of Central Environment Council 9th Report (Appendix 1)	(RS)-1-p-Chlorophenyl-4,4-dimethyl-3-(1H-1,2,4-triazol-1-ylmethyl)pentan-3-ol; Tebuconazole
	56 of Central Environment Council 9th Report (Appendix 1)	2-Chloropropionic acid
	57 of Central Environment Council 9th Report (Appendix 1)	Chlorobenzene
	58 of Central Environment Council 9th Report (Appendix 1)	Chloroform
	59 of Central Environment Council 9th Report (Appendix 1)	3-Chloro-2-methyl-1-propene
Substances that may be classified as Hazardous Air Pollutants	60 of Central Environment Council 9th Report (Appendix 1)	Cobalt and its compounds
	61 of Central Environment Council 9th Report (Appendix 1)	Vinyl acetate

	62 of Central Environment Council 9th Report (Appendix 1)	2-Methoxyethyl acetate; Ethylene glycol monomethyl ether acetate
	63 of Central Environment Council 9th Report (Appendix 1)	Ethylene oxide
	64 of Central Environment Council 9th Report (Appendix 1)	Propylene oxide; 1,2-Epoxypropane
	65 of Central Environment Council 9th Report (Appendix 1)	Cyanamide
	66 of Central Environment Council 9th Report (Appendix 1)	2,4-Diaminoanisole
	67 of Central Environment Council 9th Report (Appendix 1)	4,4'-Diaminodiphenyl ether
	68 of Central Environment Council 9th Report (Appendix 1)	Inorganic cyanide compounds (except complex salts and cyanates)
Substances that may be classified as Hazardous Air Pollutants	69 of Central Environment Council 9th Report (Appendix 1)	2-(Diethylamino)ethanol
	70 of Central Environment Council 9th Report (Appendix 1)	Carbon tetrachloride

	71 of Central Environment Council 9th Report (Appendix 1)	1,4-Dioxane
	72 of Central Environment Council 9th Report (Appendix 1)	1,3-Dioxolane
	73 of Central Environment Council 9th Report (Appendix 1)	Cyclohexanamine
	74 of Central Environment Council 9th Report (Appendix 1)	1,2-Dichloroethane
	75 of Central Environment Council 9th Report (Appendix 1)	1,1-Dichloroethylene; Vinylydene dichloride
	76 of Central Environment Council 9th Report (Appendix 1)	cis-1,2-Dichloroethylene
	77 of Central Environment Council 9th Report (Appendix 1)	trans-1,2-Dichloroethylene
Substances that may be classified as Hazardous Air Pollutants	78 of Central Environment Council 9th Report (Appendix 1)	Dichloroacetic acid
	79 of Central Environment Council 9th Report (Appendix 1)	1,2-Dichloro-4-nitrobenzene

	80 of Central Environment Council 9th Report (Appendix 1)	1,4-Dichloro-2-nitrobenzene
	81 of Central Environment Council 9th Report (Appendix 1)	1,2-Dichloropropane
	82 of Central Environment Council 9th Report (Appendix 1)	Dichlorobromomethane; Bromodichloromethane
	83 of Central Environment Council 9th Report (Appendix 1)	o-Dichlorobenzene
	84 of Central Environment Council 9th Report (Appendix 1)	p-Dichlorobenzene
	85 of Central Environment Council 9th Report (Appendix 1)	Dichloromethane; Methylene dichloride
	86 of Central Environment Council 9th Report (Appendix 1)	Dinitrotoluene
Substances that may be classified as Hazardous Air Pollutants	87 of Central Environment Council 9th Report (Appendix 1)	1,6-Dinitropyrene
	88 of Central Environment Council 9th Report (Appendix 1)	1,8-Dinitropyrene

	89 of Central Environment Council 9th Report (Appendix 1)	Divinylbenzene
	90 of Central Environment Council 9th Report (Appendix 1)	Dibenzo[a,h]acridine
	91 of Central Environment Council 9th Report (Appendix 1)	Dibenzo[a,j]acridine
	92 of Central Environment Council 9th Report (Appendix 1)	Dibenz[a,h]anthracene
	93 of Central Environment Council 9th Report (Appendix 1)	7H-Dibenzo[c,g]carbazole
	94 of Central Environment Council 9th Report (Appendix 1)	Naphtho[1,2,3,4-def]chrysene
	95 of Central Environment Council 9th Report (Appendix 1)	Dibenzo[b,def]chrysene
Substances that may be classified as Hazardous Air Pollutants	96 of Central Environment Council 9th Report (Appendix 1)	Benzo(r,s,t)pentaphene
	97 of Central Environment Council 9th Report (Appendix 1)	Dibenzo[def,p]chrysene

	98 of Central Environment Council 9th Report (Appendix 1)	N,N-Dimethylacetamide
	99 of Central Environment Council 9th Report (Appendix 1)	2,6-Dimethylaniline
	100 of Central Environment Council 9th Report (Appendix 1)	Dimethylamine
	101 of Central Environment Council 9th Report (Appendix 1)	Dimethyl disulfide
	102 of Central Environment Council 9th Report (Appendix 1)	Dimethyl 2,2,2-trichloro-1-hydroxyethylphosphonate; Trichlorfon; DEP
	103 of Central Environment Council 9th Report (Appendix 1)	1,1-Dimethylhydrazine
	104 of Central Environment Council 9th Report (Appendix 1)	3,3'-Dimethylbiphenyl-4,4'-diyl diisocyanate
Substances that may be classified as Hazardous Air Pollutants	105 of Central Environment Council 9th Report (Appendix 1)	N,N-Dimethylformamide
	106 of Central Environment Council 9th Report (Appendix 1)	Brominated biphenyl (Br=2-5)

	107 of Central Environment Council 9th Report (Appendix 1)	Water-soluble salts of bromic acid
	108 of Central Environment Council 9th Report (Appendix 1)	Mercury and its compounds
	109 of Central Environment Council 9th Report (Appendix 1)	Hydrogenated terphenyl
	110 of Central Environment Council 9th Report (Appendix 1)	Organic tin compounds
	111 of Central Environment Council 9th Report (Appendix 1)	Styrene
	112 of Central Environment Council 9th Report (Appendix 1)	Selenium and its compounds
	113 of Central Environment Council 9th Report (Appendix 1)	Dioxins (Polychlorinated dibenzofurans and Polychlorinated dibenzo-p-dioxins)
Substances that may be classified as Hazardous Air Pollutants	114 of Central Environment Council 9th Report (Appendix 1)	Thallium and its compounds
	115 of Central Environment Council 9th Report (Appendix 1)	Thiourea

	116 of Central Environment Council 9th Report (Appendix 1)	Thiophenol
	117 of Central Environment Council 9th Report (Appendix 1)	O,O-Diethyl O-2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate; Diazinon
	118 of Central Environment Council 9th Report (Appendix 1)	O,O-Dimethyl O-3-methyl-4-nitrophenyl phosphorothioate; Fenitrothion; MEP
	119 of Central Environment Council 9th Report (Appendix 1)	Decabromodiphenyl ether
	120 of Central Environment Council 9th Report (Appendix 1)	1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane; Hexamethylenetetramine
	121 of Central Environment Council 9th Report (Appendix 1)	1,1,2,2-Tetrachloroethane
	122 of Central Environment Council 9th Report (Appendix 1)	Tetrachloroethylene
Substances that may be classified as Hazardous Air Pollutants	123 of Central Environment Council 9th Report (Appendix 1)	2,3,5,6-Tetrachloro-p-benzoquinone
	124 of Central Environment Council 9th Report (Appendix 1)	Tetrahydromethylphthalic anhydride

	125 of Central Environment Council 9th Report (Appendix 1)	Tetramethylthiuram disulfide; Thiram
	126 of Central Environment Council 9th Report (Appendix 1)	Terephthalic acid
	127 of Central Environment Council 9th Report (Appendix 1)	Dimethyl terephthalate
	128 of Central Environment Council 9th Report (Appendix 1)	Copper and its compounds
	129 of Central Environment Council 9th Report (Appendix 1)	Triethylamine
	130 of Central Environment Council 9th Report (Appendix 1)	Triethylenetetramine
	131 of Central Environment Council 9th Report (Appendix 1)	1,1,2-Trichloroethane
Substances that may be classified as Hazardous Air Pollutants	132 of Central Environment Council 9th Report (Appendix 1)	Trichloroethylene
	133 of Central Environment Council 9th Report (Appendix 1)	Trichloroacetic acid

	134 of Central Environment Council 9th Report (Appendix 1)	2,4,6-Trichloro-1,3,5-triazine
	135 of Central Environment Council 9th Report (Appendix 1)	2,4,6-Trichlorophenol
	136 of Central Environment Council 9th Report (Appendix 1)	1,2,3-Trichloropropane
	137 of Central Environment Council 9th Report (Appendix 1)	1,2,4-Trichlorobenzene
	138 of Central Environment Council 9th Report (Appendix 1)	o-Tolidine; 3,3'-Dimethylbenzidine
	139 of Central Environment Council 9th Report (Appendix 1)	1,3,5-Tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
	140 of Central Environment Council 9th Report (Appendix 1)	Toluidine
Substances that may be classified as Hazardous Air Pollutants	141 of Central Environment Council 9th Report (Appendix 1)	Toluene
	142 of Central Environment Council 9th Report (Appendix 1)	Toluenediamine

	143 of Central Environment Council 9th Report (Appendix 1)	Toluenediisocyanate; Tolylene diisocyanate
	144 of Central Environment Council 9th Report (Appendix 1)	Naphthalene
	145 of Central Environment Council 9th Report (Appendix 1)	1,5-Naphthalenediyl diisocyanate
	146 of Central Environment Council 9th Report (Appendix 1)	Zirconium dichloride oxide
	147 of Central Environment Council 9th Report (Appendix 1)	ethylene dibromide; 1,2-Dibromoethane; EDB
	148 of Central Environment Council 9th Report (Appendix 1)	Nickel and its compounds
	149 of Central Environment Council 9th Report (Appendix 1)	o-Nitroanisole
Substances that may be classified as Hazardous Air Pollutants	150 of Central Environment Council 9th Report (Appendix 1)	o-Nitroaniline
	151 of Central Environment Council 9th Report (Appendix 1)	N-Nitrosodiethylamine

	152 of Central Environment Council 9th Report (Appendix 1)	N-Nitrosodi-N-butylamine
	153 of Central Environment Council 9th Report (Appendix 1)	N-Nitrosodi-N-propylamine
	154 of Central Environment Council 9th Report (Appendix 1)	N-Nitrosodimethylamine
	155 of Central Environment Council 9th Report (Appendix 1)	N-Nitroso-N-methylurea
	156 of Central Environment Council 9th Report (Appendix 1)	N-Nitrosomorpholine
	157 of Central Environment Council 9th Report (Appendix 1)	o-Nitrotoluene
	158 of Central Environment Council 9th Report (Appendix 1)	1-Nitropyrene
Substances that may be classified as Hazardous Air Pollutants	159 of Central Environment Council 9th Report (Appendix 1)	3-Nitrofluoranthene
	160 of Central Environment Council 9th Report (Appendix 1)	2-Nitrofluorene

	161 of Central Environment Council 9th Report (Appendix 1)	3-Nitrobenzanthrone
	162 of Central Environment Council 9th Report (Appendix 1)	Nitrobenzene
	163 of Central Environment Council 9th Report (Appendix 1)	Nitromethane
	164 of Central Environment Council 9th Report (Appendix 1)	Carbon disulfide
	165 of Central Environment Council 9th Report (Appendix 1)	Nonylphenol
	166 of Central Environment Council 9th Report (Appendix 1)	Vanadium and its compounds
	167 of Central Environment Council 9th Report (Appendix 1)	5'-[N,N-Bis(2-acetyloxyethyl)amino]-2'-(2-bromo-4,6-dinitrophenylazo)-4'-methoxyacetanilide
Substances that may be classified as Hazardous Air Pollutants	168 of Central Environment Council 9th Report (Appendix 1)	1,3-Bis[(2,3-epoxypropyl)oxy]benzene
	169 of Central Environment Council 9th Report (Appendix 1)	Zinc bis(N,N-dimethyldithiocarbamate); Ziram

	170 of Central Environment Council 9th Report (Appendix 1)	Arsenic and its compounds
	171 of Central Environment Council 9th Report (Appendix 1)	Hydrazine
	172 of Central Environment Council 9th Report (Appendix 1)	Hydroquinone
	173 of Central Environment Council 9th Report (Appendix 1)	4-Vinyl-1-cyclohexene
	174 of Central Environment Council 9th Report (Appendix 1)	2-Vinylpyridine
	175 of Central Environment Council 9th Report (Appendix 1)	N-Vinyl-2-pyrrolidone
	176 of Central Environment Council 9th Report (Appendix 1)	Biphenyl
Substances that may be classified as Hazardous Air Pollutants	177 of Central Environment Council 9th Report (Appendix 1)	Piperazine
	178 of Central Environment Council 9th Report (Appendix 1)	Pyridine

	179 of Central Environment Council 9th Report (Appendix 1)	Pyrene
	180 of Central Environment Council 9th Report (Appendix 1)	Phenylhydrazine
	181 of Central Environment Council 9th Report (Appendix 1)	2-Phenylphenol
	182 of Central Environment Council 9th Report (Appendix 1)	N-Phenylmaleimide
	183 of Central Environment Council 9th Report (Appendix 1)	Phenylenediamine
	184 of Central Environment Council 9th Report (Appendix 1)	p-Phenetidine
	185 of Central Environment Council 9th Report (Appendix 1)	Phenol
Substances that may be classified as Hazardous Air Pollutants	186 of Central Environment Council 9th Report (Appendix 1)	1,3-Butadiene
	187 of Central Environment Council 9th Report (Appendix 1)	Diallyl phthalate

	188 of Central Environment Council 9th Report (Appendix 1)	Di(2-ethylhexyl) phthalate
	189 of Central Environment Council 9th Report (Appendix 1)	Dibutyl phthalate
	190 of Central Environment Council 9th Report (Appendix 1)	n-Butyl benzyl phthalate
	191 of Central Environment Council 9th Report (Appendix 1)	n-Butyl-2,3-epoxypropyl ether
	192 of Central Environment Council 9th Report (Appendix 1)	Butylhydroxyanisole; BHA
	193 of Central Environment Council 9th Report (Appendix 1)	tert-Butyl hydroperoxide
	194 of Central Environment Council 9th Report (Appendix 1)	Fluorides (water-soluble inorganic compounds only)
Substances that may be classified as Hazardous Air Pollutants	195 of Central Environment Council 9th Report (Appendix 1)	2-Butenal
	196 of Central Environment Council 9th Report (Appendix 1)	Furan

	197 of Central Environment Council 9th Report (Appendix 1)	Fluoranthene
	198 of Central Environment Council 9th Report (Appendix 1)	Fluorene
	199 of Central Environment Council 9th Report (Appendix 1)	2-Propyn-1-ol
	200 of Central Environment Council 9th Report (Appendix 1)	1-Bromopropane
	201 of Central Environment Council 9th Report (Appendix 1)	2-Bromopropane
	202 of Central Environment Council 9th Report (Appendix 1)	Bromoform; Tribromomethane
	203 of Central Environment Council 9th Report (Appendix 1)	Bromomethane; Methyl bromide
Substances that may be classified as Hazardous Air Pollutants	204 of Central Environment Council 9th Report (Appendix 1)	Hexachlorobenzene
	205 of Central Environment Council 9th Report (Appendix 1)	Hexamethylenediamine

	206 of Central Environment Council 9th Report (Appendix 1)	Hexamethylene diisocyanate
	207 of Central Environment Council 9th Report (Appendix 1)	Hexane
	208 of Central Environment Council 9th Report (Appendix 1)	Beryllium and its compounds
	209 of Central Environment Council 9th Report (Appendix 1)	Water-soluble salts of peroxodisulfuric acid
	210 of Central Environment Council 9th Report (Appendix 1)	Perfluoro(octane-1-sulfonic acid); PFOS
	211 of Central Environment Council 9th Report (Appendix 1)	Benzene
	212 of Central Environment Council 9th Report (Appendix 1)	1,2,4-Benzenetricarboxylic 1,2-anhydride
Substances that may be classified as Hazardous Air Pollutants	213 of Central Environment Council 9th Report (Appendix 1)	Benzo[a]anthracene
	214 of Central Environment Council 9th Report (Appendix 1)	Benzotrichloride; Benzylidyne trichloride

	215 of Central Environment Council 9th Report (Appendix 1)	Benzo[a]pyrene
	216 of Central Environment Council 9th Report (Appendix 1)	Benzo[e]pyrene
	217 of Central Environment Council 9th Report (Appendix 1)	Benzo[b]fluoranthene
	218 of Central Environment Council 9th Report (Appendix 1)	Benzo[j]fluoranthene
	219 of Central Environment Council 9th Report (Appendix 1)	Benzo[k]fluoranthene
	220 of Central Environment Council 9th Report (Appendix 1)	Pentachlorobenzene
	221 of Central Environment Council 9th Report (Appendix 1)	Boron compounds
Substances that may be classified as Hazardous Air Pollutants	222 of Central Environment Council 9th Report (Appendix 1)	Polychlorinated naphthalene
	223 of Central Environment Council 9th Report (Appendix 1)	Polychlorinated biphenyl; PCB

	224 of Central Environment Council 9th Report (Appendix 1)	Formaldehyde
	225 of Central Environment Council 9th Report (Appendix 1)	Manganese and its compounds
	226 of Central Environment Council 9th Report (Appendix 1)	Maleic anhydride
	227 of Central Environment Council 9th Report (Appendix 1)	Methacrylic acid
	228 of Central Environment Council 9th Report (Appendix 1)	2,3-Epoxypropyl methacrylate
	229 of Central Environment Council 9th Report (Appendix 1)	Methyl methacrylate
	230 of Central Environment Council 9th Report (Appendix 1)	N-Methylaniline
Substances that may be classified as Hazardous Air Pollutants	231 of Central Environment Council 9th Report (Appendix 1)	Methylamine
	232 of Central Environment Council 9th Report (Appendix 1)	1-Naphthyl N-methylcarbamate; carbaryl; NAC

	233 of Central Environment Council 9th Report (Appendix 1)	2-sec-Butylphenyl N-methylcarbamate; Fenobucarb; BPMC
	234 of Central Environment Council 9th Report (Appendix 1)	3-Methylthiopropanal
	235 of Central Environment Council 9th Report (Appendix 1)	1-Methylnaphthalene
	236 of Central Environment Council 9th Report (Appendix 1)	2-Methylnaphthalene
	237 of Central Environment Council 9th Report (Appendix 1)	4,4'-Methylenedianiline
	238 of Central Environment Council 9th Report (Appendix 1)	4,4'-Methylenebis(2-chloroaniline); 3,3'-Dichloro-4,4'-diaminodiphenylmethane
	239 of Central Environment Council 9th Report (Appendix 1)	Methylenebis(4,1-cyclohexylene) diisocyanate
Substances that may be classified as Hazardous Air Pollutants	240 of Central Environment Council 9th Report (Appendix 1)	Methylenebis(4-phenyl isocyanate); Methylenebis(4,1-phenylene) diisocyanate
	241 of Central Environment Council 9th Report (Appendix 1)	2-Methoxyethanol; Ethylene glycol monomethyl ether

	242 of Central Environment Council 9th Report (Appendix 1)	2-Mercaptoimidazoline; Ethylenethiourea; 2-Imidazolidinethione
	243 of Central Environment Council 9th Report (Appendix 1)	Molybdenum and its compounds
	244 of Central Environment Council 9th Report (Appendix 1)	Morpholine
	245 of Central Environment Council 9th Report (Appendix 1)	Dimethyl 2,2-dichlorovinyl phosphate; Dichlorvos; DDVP
	246 of Central Environment Council 9th Report (Appendix 1)	Tris(2-chloroethyl) phosphate
	247 of Central Environment Council 9th Report (Appendix 1)	Tris(2,3-dibromopropyl) phosphate
	248 of Central Environment Council 9th Report (Appendix 1)	Tritolyl phosphate
Substances that may be classified as Hazardous Air Pollutants (Priority Action Substances)	1 of Central Environment Council 9th Report (Appendix 2)	Acrylonitrile
	2 of Central Environment Council 9th Report (Appendix 2)	Acetaldehyde

	3 of Central Environment Council 9th Report (Appendix 2)	Vinyl chloride monomer; Chloroethylene; Vinyl chloride
	4 of Central Environment Council 9th Report (Appendix 2)	Methyl chloride; Chloromethane
	5 of Central Environment Council 9th Report (Appendix 2)	Chromium and chromium(III) compounds
	6 of Central Environment Council 9th Report (Appendix 2)	Chromium(VI) compounds
	7 of Central Environment Council 9th Report (Appendix 2)	Chloroform
	8 of Central Environment Council 9th Report (Appendix 2)	Ethylene oxide
	9 of Central Environment Council 9th Report (Appendix 2)	1,2-Dichloroethane
Substances that may be classified as Hazardous Air Pollutants (Priority Action Substances)	10 of Central Environment Council 9th Report (Appendix 2)	Dichloromethane; Methylene dichloride
	11 of Central Environment Council 9th Report (Appendix 2)	Mercury and its compounds

	12 of Central Environment Council 9th Report (Appendix 2)	Dioxins (Polychlorinated dibenzofurans and Polychlorinated dibenzo-p-dioxins)
	13 of Central Environment Council 9th Report (Appendix 2)	Tetrachloroethylene
	14 of Central Environment Council 9th Report (Appendix 2)	Trichloroethylene
	15 of Central Environment Council 9th Report (Appendix 2)	Toluene
	16 of Central Environment Council 9th Report (Appendix 2)	Nickel compounds
	17 of Central Environment Council 9th Report (Appendix 2)	Arsenic and its compounds
	18 of Central Environment Council 9th Report (Appendix 2)	1,3-Butadiene
Substances that may be classified as Hazardous Air Pollutants (Priority Action Substances)	19 of Central Environment Council 9th Report (Appendix 2)	Beryllium and its compounds
	20 of Central Environment Council 9th Report (Appendix 2)	Benzene

	21 of Central Environment Council 9th Report (Appendix 2)	Benzo[a]pyrene
	22 of Central Environment Council 9th Report (Appendix 2)	Formaldehyde
	23 of Central Environment Council 9th Report (Appendix 2)	Manganese and its compounds

Typical VOC substances in Japan

Order	CAS RN®	Substance name
1	108-88-3	Toluene
2	1330-20-7	Xylene
3	108-67-8	1,3,5-Trimethylbenzene
4	141-78-6	Ethyl acetate
5	124-18-5	Decane
6	67-56-1	Methanol
7	75-09-2	Dichloromethane
8	78-93-3	Methyl ethyl ketone
9	106-97-8	n-Butane
10	75-28-5	Isobutane
11	79-01-6	Trichloroethylene
12	67-30-0	Isopropanol
13	123-86-4	Butyl acetate
14	67-64-1	Acetone
15	108-10-1	Methyl isobutyl ketone
16	111-76-2 7580-85-0	2-Butoxyethanol, 2-tert-Butoxyethanol
17	110-54-3	n-Hexane
18	78-92-2	n-Butanol
19	109-66-0	n-Pentane

20	107-01-7	cis-2-Butene
21	78-83-1	Isobutanol
22	107-98-2	Propylene glycol monomethyl ether
23	127-18-4	Tetrachloroethylene
24	110-82-7	Cyclohexane
25	109-60-4	Propyl acetate
26	624-64-6	trans-2-Butene
27	110-80-5	2-Ethoxyethanol
28	1120-21-4	Undecane
29	111-84-2	Nonane
30	108-65-6	2-Propanol, 1-methoxy-, acetate
31	107-83-5	2-Methylpentane
32	107-21-1	Ethylene glycol
33	513-35-9	2-Methyl-2-butene
34	1678-91-7	Ethylcyclohexane
35	119-64-2	Tetralin
36	110-43-0	2-Heptanone
37	591-78-6	Hexan-2-one
38	74-87-3	Chloromethane
39	100-51-6	Benzyl alcohol
40	120-92-3	Cyclopentanone
41	563-46-2	2-Methyl-1-butene
42	142-82-5	n-Heptane
43	92-51-3	Bicyclohexyl
44	68-12-2	N,N-Dimethylformamide
45	646-04-8	trans-2-Pentene
46	627-20-3	cis-2-Pentene
47	100-42-5	Styrene
48	872-50-4	1-Methyl-2-pyrrolidone
49	111-15-9	2-Ethoxyethyl acetate
50	71-43-2	Benzene
51	78-59-1	Isophorone
52	108-94-1	Cyclohexanone
53	64-17-5	Ethanol
54	96-37-7	Methylcyclopentane

55	108-05-4	Vinyl acetate
56	589-34-4	3-Methylhexane
57	79-29-8	2,3-Dimethylbutane
58	75-83-2	2,2-Dimethylbutane
59	108-87-2	Methylcyclohexane
60	109-59-1	2-Isopropoxyethanol
61	107-06-2	1,2-Dichloroethane
62	75-01-4	PVC monomer
63	116-14-3	Tetrafluoroethylene
64	100-41-4	Ethylbenzene
65	98-82-8	Cumene
66	75-00-3	Chloroethane
67	71-55-6	Trichloroethane
68	107-13-1	Acrylonitrile
69	109-99-9	Tetrahydrofuran
70	109-86-4	2-Methoxyethanol
71	106-94-5	1-Bromopropane
72	80-62-6	Methyl methacrylate
73	106-99-0	1,3-Butadiene
74	75-35-4	1,1-Dichloroethylene
75	142-82-5	2,4-Dimethylpentane
76	75-56-9	2-Methyloxirane
77	67-66-3	Chloroform
78	74-83-9	Bromomethane
79	7705-14-8	4-Isopropenyl-1-methylcyclohexene
80	592-76-7	1-Heptene
81	123-91-1	1,4-Dioxane
82	75-05-8	Acetonitrile
83	107-05-1	Allyl chloride
84	79-10-7	Acrylic acid
85	78-79-5	Isoprene
86	75-07-0	Acetaldehyde
87	78-87-5	1,2-Dichloropropane
88	110-49-6	2-Methoxyethyl acetate
89	75-21-8	Oxirane

90	95-50-1	o-Dichlorobenzene
91	108-90-7	Chlorobenzene
92	107-31-3	Methyl formate
93	121-44-8	Triethylamine
94	589-81-1	3-Methylheptane
95	108-95-2	Phenol
96	90-30-2	Naphthalene
97	96-33-3	Methyl acrylate
98	108-91-8	Cyclohexylamine
99	50-00-0	Formaldehyde
100	106-89-8	2-(Chloromethyl)oxirane

3.2.4 Soil Contamination Countermeasures Act, Japan

No.	Chemical Substance Name	Classification
1	Chloroethylene; Vinyl chloride; Vinyl chloride monomer	Class 1
2	Carbon tetrachloride	Class 1
3	1, 2-Dichloroethane	Class 1
4	1, 1-Dichloroethylene	Class 1
5	1, 2-Dichloroethylene	Class 1
6	1, 3-Dichloropropene	Class 1
7	Dichloromethane	Class 1
8	Tetrachloroethylene	Class 1
9	1, 1, 1-Trichloroethane	Class 1
10	1, 1, 2-Trichloroethane	Class 1
11	Trichloroethylene	Class 1
12	Benzene	Class 1
13	Cadmium and its compounds	Class 2
14	Hexavalent chromium compounds	Class 2
15	Cyanide compounds	Class 2
16	Mercury and its compounds	Class 2
17	Selenium and its compounds	Class 2
18	Lead and its compounds	Class 2
19	Arsenic and its compounds	Class 2
20	Fluorine and its compounds	Class 2
21	Boron and its compounds	Class 2
22	2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine; shimazine; CAT	Class 3
23	S-4-chlorobenzyl diethylthiocarbamate	Class 3
24	Tetramethylthiuram disulfide	Class 3
25	PCBs	Class 3
26	Organic phosphorus compounds (diethyl p-nitrophenol thiophosphate (parathion) , dimethyl p-nitrophenol thiophosphate (methyl parathion) , dimethyl ethylmercaptoethyl thiophosphate (demeton methyl) and ethyl-p-nitrophenylthionobenzenephosphate (EPN) only)	Class 3

3.2.5 Conflict minerals

DODD-FRANK WALL STREET REFORM AND CONSUMER PROTECTION ACT (USA)

Public Law 111-203, 111th Congress (2010)

Section 1502 of the above U.S. federal law was introduced to require companies to conduct supply chain due diligence and disclose relevant information, due to concerns that armed groups in the Democratic Republic of the Congo and its surrounding countries were financing and sustaining conflicts through the mining and trading of minerals.
URL(p838) : https://www.congress.gov/111/statute/STATUTE-124/STATUTE-124-Pg1376.pdf

With regard to conflict minerals, please confirm the following and provide the relevant information if any of the conditions apply:

1. Whether any of the metals listed in the table below are intentionally contained in the product because they are necessary for the product's specifications or functions.
2. Whether any of the metals listed in the table below are contained in the product because they are required during the manufacturing process, even though they are not necessary for the product's specifications or functions.
3. Whether any constituent materials of the product contain the metals described in Item 2 under the conditions specified therein.

If any of the above conditions apply, please provide the relevant information.

No.	Substances
1	gold
2	tantalum
3	tungsten
4	tin

From the perspective of responsible mineral procurement, we also request suppliers to manage the following minerals in the same manner as gold, tantalum, tungsten, and tin.

No.	Substances
1	cobalt
2	mica[*1]
3	copper
4	graphite[*2]
5	lithium
6	nickel

＊1　When mica is included, please also specify whether it is natural or synthetic mica.

＊2　When graphite is included, please also specify whether it is natural or synthetic graphite.

＊　Apr 25 2025 RMI : Responsible Minerals Initiative released EMRT v.2.0 in April 2025, and 4 substances were added.

URL : https://eco-hearts.com/blog/2025/04/cmrt_emrt/

3.2.6 Biocide

Concerning the making available on the market and use of biocidal products (EU)

REGULATION (EU) No 528/2012　Article3

A biocide is a chemical substance used to destroy, deter, render harmless, or control harmful organisms such as bacteria, fungi, algae, and insects.

Products containing biocidal substances, or products with a biocidal function, may be subject to regulations such as the EU Biocidal Products Regulation (BPR). Suppliers are requested to disclose the presence of such substances when applicable.

URL : https://eur-lex.europa.eu/eli/reg/2012/528/oj/eng

3.2.7 New SVHC candidate or new SVHC substances

(Not yet including in chemSHERPA)

Three substances were added to the SVHC Candidate List on November 5, 2025 and February 4, 2026, bringing the total number of SVHCs to 253.

Name	EC Number	CAS RN®
1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	284-366-9	84852-53-9
n-hexane	203-777-6	110-54-3
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts	-	-

G/TBT/N/EU/803 - WTO

Name	EC Number	CAS RN®
Resorcinol	203-585-2	108-46-3
URL : https://echa.europa.eu/-/echa-adds-one-hazardous-chemical-to-the-candidate-list-2 https://echa.europa.eu/-/echa-adds-two-hazardous-chemicals-to-the-candidate-list-1		

3.2.8 Others

Substances	Scope
Nonylphenol and its derivatives (Chemicals Subject to Reduction) Octylphenol and its derivatives Other alkylphenol and its derivatives (Including all of linear and branched isomers, and their alkoxylates)	-
Azo compounds (Dyes and pigments, and others)	Carcinogenic amine structure POPs substances as an impurity
Polyaromatic hydrocarbons (Fused substances of aromatic structures)	Carcinogenic polyaromatic hydrocarbons
Organic halogen compounds (Halogen (fluoride, chloride, bromide, and iodide) atom directly bonded to carbon atom compounds)	Any kind of regulations and guidelines POPs substances as an impurity
Palm oil, palm kernel oil, and their derivatives	Environmental and human rights concerns (Certification and self audit)
Woods and related compounds (Wood, pulp, cellulose, paper, biomass, their byproducts and their derivatives)	Environmental and human rights concerns (Certification and self audit)
Natural rubber and their derivatives (Natural rubber, latex and derivatives)	Environmental and human rights concerns (Certification and self audit)
nanomaterials (Primary particles, at least of one dimension diameter 1-100 nm)	Hazard (Concern of unknown hazard)
microplastics (diameter or edge less than 5 mm)	Global environment (especially aquatic organisms)

Revision history

Rev.	Date (YYYY/MM/DD)	Details
0	2014/3/25	
1	2014/10/15	Updated chemical substance lists.
2	2017/6/13	Chemical substances reviewed, Updated chemical substance lists. In the face of stricter management regulations on chemical substances due to changes in scientific knowledge and social conditions, we conducted a major review of the chemical substances subject to control by our company with the aim of simplifying information management. The changes further clarified the use of chemSHERPA (MSDSplus), a standard tool for communicating information on chemical substances in products, for items for which management regulations are revised more frequently, with the aim of simplifying management both internally and externally.
3	2017/9/11	Updated chemical substance lists. Following the publication of chemSHERPA and MSDSplus, which reflect the SVHC 17th candidate substances, we updated to the latest versions of each tool.
4	2018/2/28	Updated chemical substance lists. In order to rationalize responses during the period between the announcement of candidate substances for listing as SVHC (Substances of very high concern) and the announcement of substances to be listed and the revision of chemSHERPA, we designated SVHC candidate substances and substances to be revised that are not reflected in chemSHERPA as substances subject to our own management regulations. The list also includes the SVHC 18th candidate substances for which public opinion was being sought as of the revision date. We updated version information on chemSHERPA and MSDSplus used for communicating information on chemical substances in products following the release of new versions of

		chemSHERPA and MSDSplus reflecting the SVHC 18th candidate substances decision.
5	2018/3/15	Updated chemical substance lists. Following the announcement of the candidate substances for the SVHC 19th candidate substances, we included these substances in the survey.
6	2018/4/26	Updated chemical substance lists. We updated our lists to reflect the designations and revocations of chemical substances in March/April 2018 under the Chemical Substances Control Act including the Class I Specified substances, monitoring and priority assessment chemical substances lists. Following the European Commission decision to add SVHC, these substances were included in the scope of the study.
7	2018/8/27	Updated chemical substance lists. We updated version information on chemSHERPA used for communicating information on chemical substances in products following the release of a new version of chemSHERPA reflecting the decision on additional listing of the SVHC 19th candidate substances. Also, as support for MSDSplus ended in June 2018, MSDSplus-related statements were deleted.
8	2018/9/6	Updated chemical substance lists. Following the announcement of the SVHC 20th candidate substances, these substances were included in our survey.
9	2019/1/18	Updated chemical substance lists. Following the announcement of the SVHC 20th candidate substances, these substances were included in our survey.
10 (Ver. 2.20)	2019/5/17	Clarified the classification of Prohibited Chemical Substances, Chemicals Subject to Reduction, and Managed Chemical Substances.

		Reclassified nonylphenol compounds from Chemicals Subject to Reduction to Managed Chemical Substances to reflect progress in reduction activities. Updated chemical substance lists. Updated to the latest version of chemSHERPA. Updated the Priority Assessment Chemical Substances list based on the FY2019 designation results. Added cobalt and mica to the conflict minerals management scope from the perspective of responsible mineral sourcing. Added the 21st SVHC Candidate List substances to the survey scope. Reviewed and updated regulatory information, effective dates, and referenced URLs to ensure consistency with the latest external sources.
11 (Ver. 2.21)	2019/11/20	Updated chemical substance lists. Updated regulatory information to reflect the latest revisions. Updated to the latest version of chemSHERPA. Added the latest SVHC Candidate List substances to the survey scope.
12 (Ver. 2.30)	2020/7/1	Updated chemical substance lists. Updated regulatory information to reflect the latest revisions. Updated to the latest version of chemSHERPA. Updated Monitoring Chemical Substances and Priority Assessment Chemical Substances as of April 1, 2020. Added the 23rd SVHC Candidate List substances to the survey scope.
13 (Ver. 2.40)	2021/7/1	Updated chemical substance lists. Updated regulatory information to reflect the latest revisions.

		Added chemical substances newly designated as Class I Specified Chemical Substances under the CSCL (effective October 22, 2021). Updated to the latest version of chemSHERPA. Updated Monitoring Chemical Substances and Priority Assessment Chemical Substances as of April 1, 2021. Added the 25th SVHC Candidate List substances and resorcinol to the survey scope. Added alkylphenol substances other than nonylphenol and octylphenol to the survey scope.
14 (Ver. 2.50)	2022/7/1	Updated chemical substance lists. Updated regulatory information to reflect the latest revisions. Updated to the latest version of chemSHERPA. Updated Monitoring Chemical Substances and Priority Assessment Chemical Substances as of April 1, 2022. Corrected the CAS RN® for VOC substance No. 16 (Butyl Cellosolve). Added the 27th SVHC Candidate List substances to the survey scope.
15 (Ver. 2.60)	2023/7/26	Updated chemical substance lists. Added substances regulated under the Soil Contamination Countermeasures Act of Japan. Updated regulatory information to reflect the latest revisions. Revised the chemSHERPA section to direct users to download the latest version from the official website. Updated Monitoring Chemical Substances and Priority Assessment Chemical Substances as of April 1, 2023.

		Updated the list of designated substances and oils regulated under the Water Pollution Control Act of Japan. Added the 29th SVHC Candidate List substances to the survey scope. Added two substances to the Chemicals Subject to Reduction category.
16 (Ver. 2.70)	2024/7/10	Updated chemical substance lists. Added PFHxS as a newly designated Class I Specified Chemical Substance under the CSCL. Revised the Volatile Organic Compounds (VOC) section in accordance with the Air Pollution Control Act of Japan. Updated regulatory information to reflect the latest revisions. Updated Monitoring Chemical Substances and Priority Assessment Chemical Substances as of April 1, 2024. Added the 31st SVHC Candidate List substances to the survey scope.
17 (Ver. 2.80)	2025/8/12	Updated chemical substance lists. Added four newly designated Class I Specified Chemical Substances under the CSCL to the Prohibited Chemical Substances list. Added a new list of Specified General Chemical Substances. Added the 33rd SVHC Candidate List substances to the survey scope.
18 (Ver. 2.90)	2026/7/31	Updated chemical substance lists. Revised selected wording throughout the document. Added the 34th and 35th SVHC Candidate List substances to the survey scope. Partially revised the document format.

19 (Ver. 2.91)	2026/9/4	Correction of typographical errors and revision of certain wording in the document.