

LIXIL Corporation

Chemical Substances Management Rank Guidelines

Version 4.0 (For Product)

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LIXIL Corporation

Contents

1. Objective of These Guidelines
2. Scope of Application
 - 2.1 Application to Products
 - 2.2 Application to Parts and Materials
3. Definition of Terms
4. Management Levels of Chemical Substance Contained in Products and Requirements
 - 4.1 Prohibited Substances
 - 4.2 Restricted Substances
 - 4.2.1 Application to Japan
 - 4.2.2 Application to EU
 - 4.2.3 Application to China
 - 4.3 Monitored Substances

Appended Figure: Examples of Homogeneous Materials and Packaging Materials

Appendix 1. Lists of Sample Prohibited Substances

Appendix 2. Lists of Sample Restricted Substances

Appendix 3. Lists of Building Materials Requiring Conformance Certification on Countermeasures for Indoor Air Pollution

1. Objective of These Guidelines

The objective of “Chemical Substances Management Rank Guidelines (Product Edition)” is to clarify the level of management of chemical substances that are prohibited or restricted if contained in products shipped by LIXIL Corporation, or in parts and materials delivered to LIXIL Corporation. Also, it is to ensure and improve compliance with laws and regulations as well as reduce substance of concern to contribute not only to improving people's comfort and lifestyles but to resolving environmental pollution problems.

2. Scope of Application

2.1 Application to Products

- (1) Products designed, manufactured and sold by LIXIL Corporation.
- (2) Products outsourced to a third party by LIXIL Corporation for design and manufacturing or manufacturing only and sold by LIXIL Corporation with its trademark.
- (3) Products purchased by LIXIL corporation from another company and sold after assembly.
- (4) Products contracted to LIXIL corporation from a third party for design and manufacturing (provided, however, that parts and materials designated by the third party are excluded.)

2.2 Application to Parts and Materials

This clause applies to the parts, materials and the other items to be used in products mentioned above in Article 2.1; provided, however, that specific substances used in the manufacturing process but not contained in a final product, are not applicable.

(1) Applicable scope

- a) Parts, half-finished parts, constituent materials (e.g., solder material, adhesive, etc.)
- b) Raw materials (e.g., metallic materials, resin materials, etc.)
- c) Indirect materials that may affect products in the manufacturing process (e.g., chemicals, cleaning agents, processing oils, etc.)
- d) Repair parts
- e) Packaging materials (e.g., packaging boxes, adhesive tapes, plastic bags, etc.) and those used for transportation or protection (e.g., pallets, packaging films, etc.); provided, however, those collected or reused by a cargo distributor are not applicable.
- f) Printed materials enclosed (e.g., instruction manuals, warranty certificates, labels, etc.)

(2) Exemptions

Indirect materials that will not affect products in the manufacturing process (e.g., equipment, tools, consumables, fuel, office supplies, etc.)

3. Definition of Terms

The terms used in these guidelines are defined as shown below in Table 1 .

Table 1: Definitions of Terms

Term	Definition (Underlined are the terms to be defined)
Chemical substance*1	A chemical element or compound that either exists in nature or is obtained through a manufacturing process.
Substance of concern	A <u>chemical substance</u> contained in half-finished parts or <u>parts</u> that can have a significant impact on the global environment and the human body determined by LIXIL Corporation.
Mixture*1	A mixture intentionally comprising two or more <u>chemical substances</u> . Examples are paints, inks, alloy ingot, holder, resin pellets containing additives, etc.
Chemical*1	A <u>chemical substance</u> or <u>mixture</u>
Product*1	A <u>chemical</u> , <u>half-finished part</u> , <u>part</u> or <u>end product</u> to be delivered to a customer as an outcome of business activities of the organization.
Half-finished part	An <u>article</u> to constitute a <u>product</u> .
Part	An <u>article</u> to be used to fulfill the function of a <u>product</u> and create an <u>end product</u> .
End product	A final <u>article</u> comprising <u>parts</u> and <u>half-finished parts</u> .
Article*1	An item of specific appearance or design created during manufacture which substantially determines functions in final use rather than functions provided by its chemical composition. The examples of articles are metal plates, gears, integrated circuits, electrical appliances, transport equipment, etc.
Constituent material	Materials to be used for the assembly of products or parts.
Raw material	Raw materials (an element of an <u>end product</u> that does not retain its original form) or materials (an element of an <u>end product</u> that retains its original form).
Indirect material	Chemicals, cleaning agents, processing oils, equipment, tools, consumables, repair parts, fuels, stationery, etc. that are not directly used in products as <u>raw materials</u> , <u>half-finished parts</u> or <u>parts</u> .
Prohibited substance	Substances that are prohibited from being used for <u>products</u> , etc. by laws and regulations or those prohibited from being contained beyond the <u>regulation value</u> in <u>products</u> that are forbidden from being used by LIXIL Corporation.
Restricted substance	Substances other than prohibited ones that are either prohibited from being used for <u>products</u> , prohibited from being contained beyond the <u>regulation value</u> in <u>products</u> , or required to disclose its content information for each sales area designated by LIXIL Corporation.
Monitored substance	Substances of which are required to disclose the content information as necessary.

Contained in products	Conditions where target substances are contained in products, parts or materials as shown below:
	(1) Conditions where target substances are intentionally used to be contained in <u>products, parts</u> or materials.
	(2) Conditions where target substances are contained in <u>products, parts</u> or materials as impurities.
	(3) Conditions where target substances contained in processing oils, etc. to be used in a manufacturing process remain in or adhere to <u>products, parts</u> or materials.

Table 1: Definitions of Terms (Continued)

Term	Definition (Underlined are the terms to be defined)
Intentional use	The intentional use of a target substance for the purpose of improving the specific performance, appearance or quality of a final <u>product</u> ; provided, however, that those not eventually contained either in a <u>product, part</u> or materials are not applicable.
Impurity	Substances that are contained in natural materials and cannot be technically removed during the purification process as industrial materials. Or, substances that are generated in the process of synthetic reactions and cannot be technically removed.
Regulation value	Value to be guaranteed for <u>products, parts</u> or materials when <u>prohibited substances</u> or <u>restricted substances</u> are contained. (<u>Content concentration</u> , etc.)
Content concentration	<p>Concentration of a substance in which the mass of the homogeneous materials is considered as a denominator. Homogeneous materials refer to materials that cannot be mechanically separated into different materials. The examples are as follows.</p> <p>(1) Chemical compound, polymer alloy, metal alloy, etc.</p> <p>(2) As for raw materials such as paint, adhesive, ink, paste, resin polymer, glass powder, ceramic powder, etc., their final forms created by each preset application (e.g., the dried or cured state of paints and adhesives, the molded state of resin polymers, and the heat formed state of glass and ceramic materials)</p> <p>(3) A single layer of painting or plating. In the case of its multiple layers, each single layer is considered as a homogeneous material. (Refer to the Appended Figure.)</p> <p>As for packaging materials, content concentration shall be the concentration of a substance in which the mass of the packaging half-finished parts is considered as a denominator. (e.g., "cardboard paper," "tape," and "label" for the packaging of cardboard shall be considered as separate half-finished parts) (Refer to the Appended Figure.)</p>

4. Management Levels of Chemical Substance Contained in Products and Requirements

4.1 Prohibited Substances

Substances specified in the following laws and regulations are prohibited as shown in Appendix 1. Requested shall be the submission of a certificate to show that parts and materials specified in the scope of application meet the LIXIL regulation values as shown in Appendix 1.

- Class 1 specified chemical substances stipulated in the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (hereinafter referred to as the Chemical Substances Control Law)
- Specific substances stipulated in the Act on the Protection of the Ozone Layer Through the Control of Specified Substances (hereinafter referred to as the Ozone Layer Protection Law) (excluding HFC)
- Prohibited substances stipulated in Article 55 of the Industrial Safety and Health Act (hereinafter referred to as the Safety and Health Act)
- Prohibited substances stipulated in the Building Standards Act
- Hazardous substances stipulated in Act on Control of Household Products Containing Harmful Substances (hereinafter referred to as the Household Goods Regulation Act)*2

4.2. Restricted Substances

Restricted substances are determined for parts and materials specified in the scope of application for each sales area designated by LIXIL Corporation. Requested shall be the following actions as shown in 4.2.1 to 4.2.3.

4.2.1 Application to Japan

(1) Requirements for measures against indoor air pollution

As for building materials used for products installed in a living room or a space equivalent to a living room, or for ceilings, etc. (see Appendix 3), the following substances shown in Table 2 shall be requested to comply with requirements specified by the relevant business.

Table 2 Management Standards for Indoor Air Pollutants

Laws and Regulations to be observed	Substances
Building Standards Act	Formaldehyde
VOC Emission Rate Standard from Building Materials	Toluene
	Xylene
	Ethylbenzene
	Styrene

(2) Submission of content information

As for substances specified in the following laws and regulations, their content information shall be requested to be submitted. Examples of target substances are shown in Appendix 2.

- Indoor Air Pollutants stipulated by Ministry of Health, Labour and Welfare*3
- Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (hereinafter “EU RoHS Directive”)
- Annex XVII (Restrictions) of the Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (hereinafter “EU REACH Annex XVII”)
- EU REACH Regulation Candidate List of Substances of Very High Concern (SVHC) for Authorisation (hereinafter “EU REACH Regulation SVHC”)

4.2.2 Application to EU

(1) Requirements for non-use

Requested shall be the submission of a certificate to show that substances specified in the following laws and regulations meet the LIXIL regulation values as shown in Table 3.

Examples of target substances and their CAS RN are shown in Appendix 2. *4

- EU RoHS Directive
- EU REACH Annex XVII (Restrictions)
- European Parliament and Council Directive on packaging and packaging waste (hereinafter “EU Packaging Directive”)

Table 3 Restricted substances / substance groups to EU

Laws and Regulations to be observed	Substance / Substance group	LIXIL regulation values
EU RoHS Directive *5	Cadmium and its compounds*7	Less than 100 ppm
	Lead and its compounds*7	Less than 1000 ppm
	Mercury and its compounds*7	Less than 1000 ppm
	Hexavalent chromium compound*7	Less than 1000 ppm
	Polybrominated biphenyl (PBBs)	Less than 1000 ppm
	Polybrominated diphenyl ether (PBDEs)	Less than 1000 ppm
	Bis (2-ethylhexyl) phthalate (DEHP)*8	Less than 1000 ppm
	Benzyl butyl phthalate (BBP)*8	Less than 1000 ppm
	Dibutyl phthalate (DBP)*8	Less than 1000 ppm
	Diisobutyl phthalate (DIBP)*8	Less than 1000 ppm
EU REACH Annex XVII (Restrictions) *6	Polychlorinated terphenyls (PCT)	Less than 50 ppm
	Monomethyl-tetrachlorodiphenyl methyl	Intentional use prohibited
	Monomethyl-dichloro-diphenyl methane	Intentional use prohibited
	Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers (DBBT)	Intentional use prohibited
	Azo dye, pigment forming specific amine *9	Less than 30 ppm
	Trisubstituted organotin compound *10	Less than 1000 ppm

	Dibutyltin compounds (DBT)	Less than 1000 ppm
	Dioctyltin compounds (DOT) *11	Less than 1000 ppm
	Polycyclic aromatic hydrocarbon (PAH) *12	Less than 1 ppm
	Dimethyl fumarate (DMF)	Less than 0.1 ppm
	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	Less than 0.025 ppm or less than 1 ppm *13
	C9-C14 PFCAs	Less than 0.025 ppm or less than 0.26 ppm *16
EU Packaging Directive	Four heavy metals (Cadmium, lead, mercury, and hexavalent chromium)	Less than 100 ppm in total

(2) Submission of content information

As for substances specified in the following laws and regulations, their content information shall be requested to be submitted. Examples of target substances are shown in Appendix 2.

- EU REACH Regulation SVHC

4.2.3 Application to China

(1) Requirements for non-use

Requested shall be the submission of a certificate to show that substances specified in the following laws and regulations meet the LIXIL regulation values as shown in Table 3.

Examples of target substances and their CAS RN are shown in Appendix 2. *4

- Restriction of the Use of Hazardous Substances in Electrical and Electronic Products *15 (hereinafter “China RoHS”)

Table 4 Restricted substances / substance groups to China

Laws and Regulations to be observed	Substance / Substance group	LIXIL regulation values
China RoHS	Cadmium and its compounds	Less than 100 ppm *14
	Lead and its compounds	Less than 1000 ppm *14
	Mercury and its compounds	Less than 1000 ppm *14
	Hexavalent chromium compound	Less than 1000 ppm *14
	Polybrominated biphenyl (PBB)	Less than 1000 ppm *14
	Polybrominated diphenyl ether (PBDE)	Less than 1000 ppm *14

(2) Submission of content information

As for substances specified in the following laws and regulations, their content information shall be requested to be submitted. Examples of target substances are shown in Appendix 2.

- EU RoHS Directive
- EU REACH Regulation SVHC
- EU REACH Annex XVII (Restrictions)

4.3. Monitored Substances

Substances specified in the following representative laws and regulations shall be monitored. An investigation into target substances shall be conducted as necessary as well as their content information shall be requested to be submitted. When those substances are regulated by treaties, laws, ordinances or industry guidelines individually for a region or product, they are also requested to observe the regulations.

- Regulation of the European Parliament and of the Council on Classification, Labelling and Packaging of Substances and Mixtures (EU CLP Regulation)
- Regulation of the European Parliament and of the Council on Persistent Organic Pollutants (EU POPs Regulation)
- US Toxic Substances Control Act (TSCA)
- US California, Safe Drinking Water and Toxic Enforcement Act (Proposition 65)
- Automobile: Global Automotive Declarable Substance List (GADSL)

- *1: Cited are the terms and definitions specified in JIS Z 7201:2017 Management of Chemical Substances Contained in Products - Principles and Guidelines.
- *2: The regulations apply to applications specified by the Act on Control of Household Products Containing Harmful Substances (designated household products) and, regarding mercury, to applications specified by the Mercury Pollution Prevention Act (specified mercury-using products.)
http://www.nihs.go.jp/mhlw/chemical/katei/PDF/160629_list_eiyaku.pdf
https://www.env.go.jp/chemi/tmms/suigin_leaflet_law_en.pdf
- *3: Targets shall be the building materials used for products installed in a living room or a space equivalent to a living room, excluding “Formaldehyde, Toluene, Xylene, Ethylbenzene, Styrene, DEHP and DBP.”
- *4: When substances are not listed in Table 3, Table 4 or Appendix 2, but regulated by treaties, laws, ordinances or industry guidelines individually for a region or product, they are also requested to observe the regulations.
- *5: Exemptions apply. For details on exempted items, please see the links below.
https://ec.europa.eu/environment/waste/rohs_eee/adaptation_en.htm
<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32011L0065>
- *6: Target application stipulated by the law shall be subject to regulation. When substances are not listed in Table 3, but regulated, they are requested to observe the regulation. For details on application, please see the link below.
<https://echa.europa.eu/substances-restricted-under-reach>
- *7: When the application is to packaging materials, these target substances should conform to the regulation values of EU Packaging Directive. In the case of butterfly, check those of applicable laws and regulations to observe.
- *8: When these substances are also subject to EU REACH Annex XVII (Restrictions), the total of four substances for LIXIL regulation values shall be less than 1000 ppm.
- *9: Applications subject to regulation are as follows: Textiles and leather products that may come into direct contact with human skin or oral cavity for an extended period of time. Please refer to the link at *6 as these applications may differ from those stipulated by the Household Goods Regulation Act.
- *10: When the target restricted substance overlaps the Class 1 specified chemical substances stipulated by the Chemical Substances Control Law, the substance should conform to the regulation values of EU REACH.
- *11: Applications subject to regulation are as follows: Textiles that have direct contact with human skin, walls, flooring and RTV-2 molding kits.
- *12: Applications subject to regulation are as follows: Plasticized materials contained in products, such as rubber or plastic parts.
- *13: For PFOA and its salts, the regulation value shall be less than 0.025 ppm. For PFOA-related substances, it shall be less than 1 ppm.

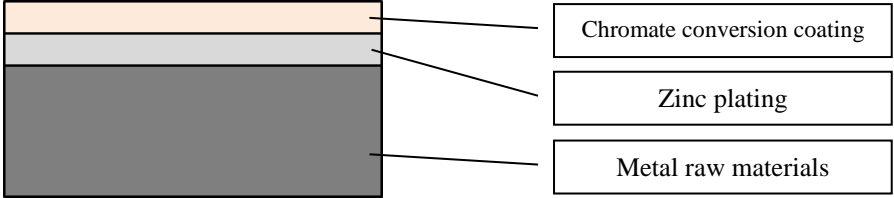
- *14: Applications subject to the regulation are as follows: Electric refrigerators, air conditioners, washing machines, electric water heaters, printers, copiers, fax machines, televisions, monitors, microcomputers, mobile phones, and telephones. (Neither Hong Kong nor Macau nor Taiwan are applicable.) As for non-regulatory applications, their content information shall be requested to be submitted.
- *15: Exemptions apply. For details on exempted items, please see the links below.
<http://www.miit.gov.cn/n1146285/n1146352/n3054355/n3057542/n3057554/c6086848/part/6086864.pdf>
- *16: For C9-C14 PFCAs and their salts, the total concentration should be less than 0.025 ppm. In the case of C9-C-14 PFCA-related substances, the total concentration should be less than 0.26ppm.

Appended Figure: Examples of Homogeneous Materials and Packaging Materials

Examples of Homogeneous Materials

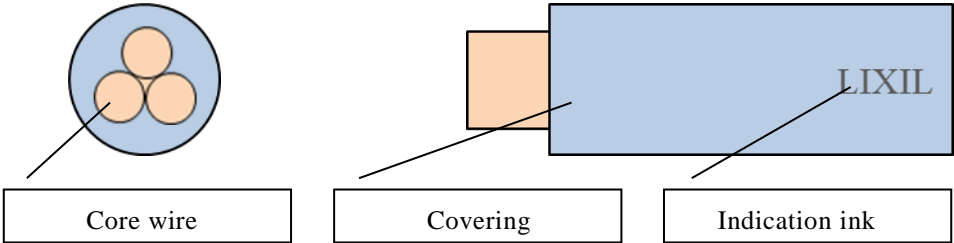
Case 1: Plating on metal raw materials

Component parts: metal raw materials, zinc plating and chromate conversion coating



Case 2: Core wire

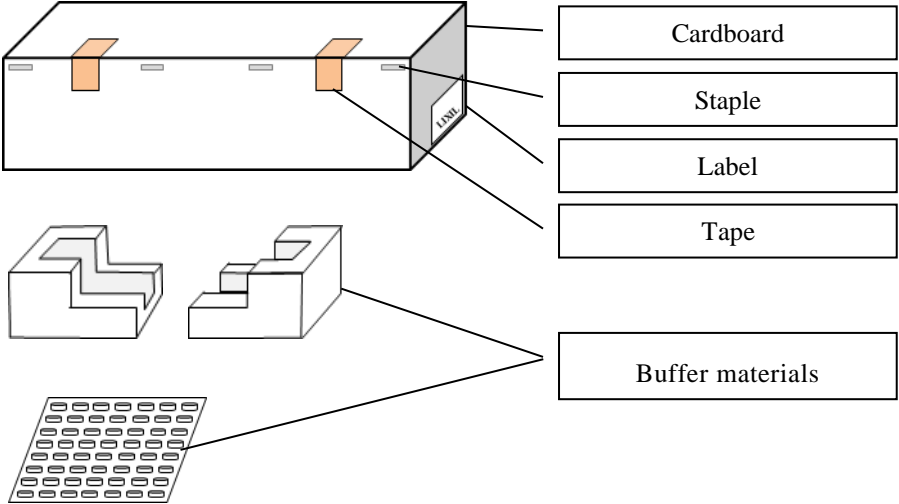
Component parts: core wire, covering, indication ink



Example of Packaging Materials

Case: Transport packaging

Component parts: cardboard, staple, label, tape, buffer materials



Appendix 1. Lists of Sample Prohibited Substances

No.	Substance name / Substance group	CAS No.	LIXIL regulation value	Japanese law and regulation to be observed				
				Chemical Substances Control Law - Class I specified chemical substances	Ozone Layer Protection Law - Specific substances	Industrial Safety and Health Act - Prohibited substances	Building Standards Act - Prohibited substances	Household Goods Regulation Act - Hazardous substances ^{*1}
1	Polychlorinated Biphenyls (PCBs)	Refer to Appendix 1-1	Intentional use prohibited	○				
2	Polychlorinated Naphthalenes (PCNs)	Refer to Appendix 1-1	Intentional use prohibited	○				
3	Hexachlorobenzene	118-74-1	Intentional use prohibited	○				
4	Aldrin	309-00-2	Intentional use prohibited	○				
5	Dieldrin*2	60-57-1	Intentional use prohibited	○				○
6	Endrin*2	72-20-8	Intentional use prohibited	○				
7	DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)	50-29-3	Intentional use prohibited	○				
8	Chlordane , pur	Refer to Appendix 1-1	Intentional use prohibited	○				
9	Bis(tributyltin) oxide (TBTO)*3	56-35-9	Intentional use prohibited	○				○
10	1,4-Benzenediamine, N,N'-bis(methylphenyl)-	Refer to Appendix 1-1	Intentional use prohibited	○				
11	Phenol, 2,4,6-tris(1,1-dimethylethyl)-	732-26-3	Intentional use prohibited	○				
12	Toxaphene	8001-35-2	Intentional use prohibited	○				
13	Mirex	2385-85-5	Intentional use prohibited	○				
14	Benzenemethanol, 2-chloro-α-(4-chlorophenyl)-α-(trichloromethyl)- and 2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol (Synonym: Kelthane or Dicofol)	115-32-2, 10606-46-9	Intentional use prohibited	○				
15	Hexachlorobutadiene	87-68-3	Intentional use prohibited	○				
16	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	Intentional use prohibited	○				
17	Perfluorooctanesulfonic Acid	Refer to Appendix 1-1	Intentional use prohibited	○				
18	Perfluoro(octane-1-sulfonyl) fluoride (PFOSF)	307-35-7	Intentional use prohibited	○				
19	Pentachlorobenzene	608-93-5	Intentional use prohibited	○				
20	r-1,c-2,t-3,c-4,t-5,t-6-Hexachlorocyclohexane	319-84-6	Intentional use prohibited	○				
21	r-1,t-2,c-3,t-4,c-5,t-6-Hexachlorocyclohexane	319-85-7	Intentional use prohibited	○				
22	r-1,c-2,t-3,c-4,c-5,t-6-Hexachlorocyclohexane	58-89-9	Intentional use prohibited	○				
23	Chlordecone	143-50-0	Intentional use prohibited	○				
24	Polybrominated Biphenyls (PBBs)	Refer to Appendix 1-1	Intentional use prohibited	○				
25	Polybrominated Diphenylethers (PBDEs)	Refer to Appendix 1-1	Intentional use prohibited	○				
26	Endosulfan	Refer to Appendix 1-1	Intentional use prohibited	○				
27	Hexabromocyclododecane (HBCDD)	Refer to Appendix 1-1	Intentional use prohibited	○				
28	Pentachlorophenol and its salts and esters	Refer to Appendix 1-1	Intentional use prohibited	○				
29	Short chain chlorinated paraffins (C10-13)	Refer to Appendix 1-1	Intentional use prohibited	○				
59	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances*7	Refer to Appendix 1-1	Intentional use prohibited	○				
30	Ozone depleting substances(HBFC,HCFC other)	Refer to Appendix 1-1	Intentional use prohibited		○			
31	Tetraphosphorus	12185-10-3	Intentional use prohibited			○		
32	Benzidine; 4,4'-diaminobiphenyl; biphenyl-4,4'-ylenediamine*4	92-87-5	Less than 10,000 ppm			○		○
33	4-Aminobiphenyl; xenylamine; Biphenyl-4-ylamine*4	92-67-1	Less than 10,000 ppm			○		○
34	Asbestos	Refer to Appendix 1-1	Less than 1000 ppm			○		
35	4-Nitrobiphenyl	92-93-3	Less than 10,000 ppm			○		
36	Bis(chloromethyl)ether; Oxybis(chloromethane)	542-88-1	Less than 10,000 ppm			○		
37	2-Naphthylamine; beta-naphthylamine*4	91-59-8	Less than 10,000 ppm			○		○
38	Benzene	71-43-2	Intentional use prohibited			○		
39	Chlorpyrifos	2921-88-2	Intentional use prohibited				○	
40	Azo dye, pigment forming specific amine	Refer to Appendix 1-1	Less than 30 ppm					○
41	Hydrochloric acid	7647-01-0	Less than 10%					○
42	Sulfuric acid	7664-93-9	Less than 10%					○
43	Chloroethene (vinyl chloride); chloroethylene	75-01-4	Not detected					○
44	5,7-dichloro-4-(2,4,5-trichlorophenoxy)-2-(trifluoromethyl)-1H-benzimidazole	63405-99-2	Less than 30 ppm					○
45	Dibenzo[a,h]anthracene (DBaH)	53-70-3	Less than 10 ppm or Less than 3 ppm * 5					○
46	Potassium hydroxide	1310-58-3	Less than 5%					○
47	Sodium hydroxide	1310-73-2	Less than 5%					○
48	Perchloroethene	127-18-4	Less than 0.1%					○
49	Trichloroethylene; trichloroethene	79-01-6	Less than 0.1%					○
50	Tris(aziridinyl)phosphin oxide	545-55-1	Not detected					○
51	Tris (2,3-dibromopropyl) phosphate	126-72-7	Not detected					○
52	Trisubstituted organotin compound (Triphenyltin compounds)	Refer to Appendix 1-1	Less than 1 ppm					○
53	Trisubstituted organotin compound (Tributyltin compounds)	Refer to Appendix 1-1	Less than 1 ppm					○
54	Bis(2,3-dibromopropyl) hydrogen phosphate	5412-25-9	Not detected					○
55	Methanol	67-56-1	Less than 50,000 ppm					○
56	Mercury and its compounds*6	Refer to Appendix 1-1	Not detected					○
57	Benzo[a]anthracene (BaA)	56-55-3	Less than 10 ppm or Less than 3 ppm *5					○
58	Benzo[a]pyrene (BaP); benzo[de,f]chrysen	50-32-8	Less than 10 ppm or Less than 3 ppm *5					○

*1: Target application subject to regulation is to household products stipulated by the law. Please refer to the link below for more details on the target application.

http://www.mhhs.go.jp/mhhs/chemical/katei/PDF/160629_list_eivaku.pdf

*2: CAS No. 128-10-9 "1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4:5,8-dimethanonaphthalene" shall also be subject to regulation.

*3: Given that its application is subject to the Household Goods Regulation Act, it shall conform to the regulation value of Trisubstituted organotin compound (Tributyltin compounds).

*4: Given that its application is subject to the Household Goods Regulation Act, it shall conform to the regulation value of Azo dye, pigment forming specific amine.

*5: For household wood preservative and wood inlet repellent containing creosote oil, the regulation value shall be less than 10 ppm.

For household preservative wood and insect-proof wood treated with creosote oil and its mixtures, the regulation value shall be less than 3 ppm.

*6: Applications for batteries and lamps, etc., should comply with the regulation values specified in the Mercury Pollution Prevention Act.

*7: In case the sales area is EU, the chemical substances shall conform to the regulated values listed in the table 3

Appendix 1-I. Detailed Lists of Sample Prohibited Substances

The following lists show the examples of applicable substances. Any substance not included in the lists but classified as a "prohibited substance" shall be prohibited from use.

Substance group	No.	Sample substance name	CAS No.
Polychlorinated Biphenyls (PCBs)	1	2,2',3,4,4',5(or 2,2',3,4,4',5')-hexachlorobiphenyl	108145-39-7
	2	(R)-2,2',3,3',4,4',6,6'-octachlorobiphenyl	109328-45-2
	3	(S)-2,2',3,3',4,4',6,6'-octachlorobiphenyl	109328-46-3
	4	Aroclor 1254	11097-69-1
	5	Aroclor 1221	11104-28-2
	6	Aroclor 1232	11141-16-5
	7	2,2',3,6,6',?-hexachlorobiphenyl	111276-74-5
	8	2,4,4',?,?-pentachlorobiphenyl	111276-75-6
	9	2,2',6',?,?-pentachlorobiphenyl	111276-76-7
	10	2,2',5,6',?,?-hexachlorobiphenyl	111276-77-8
	11	2,?,?-trichlorobiphenyl	111276-78-9
	12	4,4',?,?,?-hexachlorobiphenyl	111276-79-0
	13	2,2',5,6',?,?,?-heptachlorobiphenyl	111276-80-3
	14	4,4',?,?,?-pentachlorobiphenyl	111276-81-4
	15	2,3,3',4,4',5,5',?-octachlorobiphenyl	111276-82-5
	16	2,2',5,6',?,?,?-octachlorobiphenyl	111276-83-6
	17	Aroclor 1248	12672-29-6
	18	Aroclor 1016	12674-11-2
	19	2,2'-dichlorobiphenyl	13029-08-8
	20	polychlorobiphenyl	1336-36-3
	21	(+)-2,2',3,6-tetrachlorobiphenyl	151262-31-6
	22	(-)-2,2',3,6-tetrachlorobiphenyl	151262-32-7
	23	(+)-2,2',3,5',6-pentachlorobiphenyl	151262-34-9
	24	(-)-2,2',3,5',6-pentachlorobiphenyl	151262-35-0
	25	(S)-2,2',3,3',6-pentachlorobiphenyl	153153-43-6
	26	(R)-2,2',3,3',6-pentachlorobiphenyl	153153-44-7
	27	(S)-2,2',3,4',6-pentachlorobiphenyl	153153-45-8
	28	(R)-2,2',3,4',6-pentachlorobiphenyl	153153-46-9
	29	(S)-2,2',3,3',4,6'-hexachlorobiphenyl	153153-47-0
	30	(R)-2,2',3,3',4,6'-hexachlorobiphenyl	153153-48-1
	31	(S)-2,2',3,3',6,6'-hexachlorobiphenyl	153153-49-2
	32	(R)-2,2',3,3',6,6'-hexachlorobiphenyl	153153-50-5
	33	2,4,5-trichlorobiphenyl	15862-07-4
	34	(R)-2,2',3,4',5',6-hexachlorobiphenyl	159000-96-1
	35	(S)-2,2',3,4',5',6-hexachlorobiphenyl	159000-97-2
	36	2,2',6,6'-tetrachlorobiphenyl	15968-05-5
	37	2,3-dichlorobiphenyl	16605-91-7
	38	1,1'-Biphenyl, 2,4,5-trichloro-	16606-02-3
	39	(R)-2,2',3,3',4,4',6-heptachlorobiphenyl	176914-46-8
	40	(R)-2,2',3,4,4',5',6-heptachlorobiphenyl	176914-47-9
	41	(S)-2,2',3,3',4,4',6-heptachlorobiphenyl	176914-48-0
	42	(S)-2,2',3,4,4',5',6-heptachlorobiphenyl	176914-49-1
	43	(R)-2,2',3,3',4,4',5,6'-octachlorobiphenyl	177020-15-4
	44	(S)-2,2',3,3',4,4',5,6'-octachlorobiphenyl	177020-16-5
	45	(R)-2,2',3,3',4,6-hexachlorobiphenyl	179678-26-3
	46	(S)-2,2',3,3',4,6-hexachlorobiphenyl	179678-27-4
	47	(R)-2,2',3,3',4,5,6'-heptachlorobiphenyl	179678-28-5
	48	(S)-2,2',3,3',4,5,6'-heptachlorobiphenyl	179678-29-6
	49	(R)-2,2',3,3',4,5',6'-heptachlorobiphenyl	179678-30-9
	50	(S)-2,2',3,3',4,5',6'-heptachlorobiphenyl	179678-31-0
	51	(R)-2,2',3,3',4,6,6'-heptachlorobiphenyl	179678-32-1
	52	(S)-2,2',3,3',4,6,6'-heptachlorobiphenyl	179678-33-2
	53	2,3,4,5,6-pentachlorobiphenyl	18259-05-7
	54	3,3'-dichlorobiphenyl	2050-67-1
	55	4,4'-dichlorobiphenyl	2050-68-2
	56	2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl	2051-24-3
	57	2-chlorobiphenyl	2051-60-7
	58	3-chlorobiphenyl	2051-61-8
	59	4-chlorobiphenyl	2051-62-9
	60	(R)-2,2',3,3',5,6'-hexachlorobiphenyl	205991-67-9
	61	(S)-2,2',3,3',5,6'-hexachlorobiphenyl	205991-68-0
	62	(R)-2,2',3,4,5',6-hexachlorobiphenyl	205991-69-1
	63	(S)-2,2',3,4,5',6-hexachlorobiphenyl	205991-70-4
	64	(+)-2,2',3,3',6-pentachlorobiphenyl	207004-27-1
	65	(+)-2,2',3,3',4,6'-hexachlorobiphenyl	207004-28-2
	66	(-)-2,2',3,3',5,6'-hexachlorobiphenyl	207004-29-3
	67	(+)-2,2',3,3',6,6'-hexachlorobiphenyl	207004-30-6
	68	(-)-2,2',3,3',4,5,6'-heptachlorobiphenyl	207004-31-7
	69	(+)-2,2',3,3',4,6,6'-heptachlorobiphenyl	207004-32-8
	70	(+)-2,2',3,3',4,6-hexachlorobiphenyl	207004-33-9
	71	(+)-2,2',3,3',4,5',6'-heptachlorobiphenyl	207004-34-0
	72	(+)-2,2',3,3',4,4',5,6'-octachlorobiphenyl	207004-35-1
	73	(+)-2,2',3,4,5',6-hexachlorobiphenyl	207004-36-2
	74	2,2',3,3',5,5',6,6'-octachlorobiphenyl	2136-99-4
	75	(+)-2,2',3,4,5',6-hexachlorobiphenyl	228420-06-2
	76	(+)-2,2',3,4,4',5',6'-heptachlorobiphenyl	228420-07-3
	77	2,2',4,4'-Tetrachlorobiphenyl	2437-79-8
	78	trichlorobiphenyl	25323-68-6
	79	pentachloro[1,1'-biphenyl]	25429-29-2
	80	dichlorobiphenyl	25512-42-9
	81	2,3'-dichlorobiphenyl	25569-80-6
	82	hexachlorobiphenyl	26601-64-9
	83	tetrachlorobiphenyl	26914-33-0

84	chlorobiphenyl	27323-18-8
85	Heptachloro-1,1'-biphenyl	28655-71-2
86	3,4'-dichlorobiphenyl	2974-90-5
87	3,4-dichlorobiphenyl	2974-92-7
88	ar,ar-ar-trichlorobiphenyl	30605-61-9
89	Tetrachloro(tetrachlorophenyl)benzene	31472-83-0
90	2,3',4,4',5'-pentachlorobiphenyl	31508-00-6
91	2,3',4,4'-tetrachlorobiphenyl	32598-10-0
92	2,3',4',5-tetrachlorobiphenyl	32598-11-1
93	2,4,4',6-tetrachlorobiphenyl	32598-12-2
94	3,3',4,4'-TETRACHLOROBIPHENYL	32598-13-3
95	2,3,3',4,4'-pentachlorobiphenyl	32598-14-4
96	2,4,4',5-tetrachlorobiphenyl	32690-93-0
97	3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6
98	2,3,4,4'-tetrachlorobiphenyl	33025-41-1
99	ar,ar'-dichlorobiphenyl	33039-81-5
100	2,2',3,3',4,4',6,6'-octachlorobiphenyl	33091-17-7
101	2,6-dichlorobiphenyl	33146-45-1
102	2,4-dichlorobiphenyl	33284-50-3
103	3,3',5,5'-tetrachlorobiphenyl	33284-52-5
104	2,3,4,5-tetrachlorobiphenyl	33284-53-6
105	2,3,5,6-tetrachlorobiphenyl	33284-54-7
106	2,2',4,4',6,6'-hexachlorobiphenyl	33979-03-2
107	2,5-dichlorobiphenyl	34883-39-1
108	3,5-dichlorobiphenyl	34883-41-5
109	2,4'-dichlorobiphenyl	34883-43-7
110	2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1
111	2,2',3,4,4',5'-hexachlorobiphenyl	35065-28-2
112	2,2',3,4,4',5,5'-heptachlorobiphenyl	35065-29-3
113	2,2',3,3',4,4',5'-heptachlorobiphenyl	35065-30-6
114	2,4,6-trichlorobiphenyl	35693-92-6
115	2,2',5,5'-tetrachlorobiphenyl	35693-99-3
116	2,2',3,3',5,5'-hexachlorobiphenyl	35694-04-3
117	2,2',3,4,4',5'-hexachlorobiphenyl	35694-06-5
118	2,2',3,3',4,4',5,5'-octachlorobiphenyl	35694-08-7
119	2,2',3,4'-tetrachlorobiphenyl	36559-22-5
120	Kanechlor 300	37353-63-2
121	2,2',5-trichlorobiphenyl	37680-65-2
122	2,2',4-trichlorobiphenyl	37680-66-3
123	2,3',5'-trichlorobiphenyl	37680-68-5
124	3,3',4-trichlorobiphenyl	37680-69-6
125	2,2',4,5,5'-pentachlorobiphenyl	37680-73-2
126	2,2',3,5',6'-pentachlorobiphenyl	38379-99-6
127	2,2',4,4',5'-pentachlorobiphenyl	38380-01-7
128	2,2',3,4,5'-pentachlorobiphenyl	38380-02-8
129	2,3,3',4',6'-pentachlorobiphenyl	38380-03-9
130	2,2',3,4',5',6'-hexachlorobiphenyl	38380-04-0
131	2,2',3,3',4,6'-hexachlorobiphenyl	38380-05-1
132	2,2',3,3',4,4'-hexachlorobiphenyl	38380-07-3
133	2,3,3',4,4',5'-hexachlorobiphenyl	38380-08-4
134	2,2',3,3',6,6'-hexachlorobiphenyl	38411-22-2
135	2,2',3,3',4,5,6'-heptachlorobiphenyl	38411-25-5
136	2,2',6-trichlorobiphenyl	38444-73-4
137	2,3',6-trichlorobiphenyl	38444-76-7
138	2,4',6-trichlorobiphenyl	38444-77-8
139	2,2',3-trichlorobiphenyl	38444-78-9
140	2,3',5-trichlorobiphenyl	38444-81-4
141	2,3,3'-trichlorobiphenyl	38444-84-7
142	2,3,4'-trichlorobiphenyl	38444-85-8
143	2',3,4-trichlorobiphenyl	38444-86-9
144	3,3',5-trichlorobiphenyl	38444-87-0
145	3,4',5-trichlorobiphenyl	38444-88-1
146	3,4,4'-trichlorobiphenyl	38444-90-5
147	2,2',3,3'-tetrachlorobiphenyl	38444-93-8
148	2,2',4,4',6'-pentachlorobiphenyl	39485-83-1
149	2,3,3',4,4',5,5'-heptachlorobiphenyl	39635-31-9
150	2,3,3',5,5'-pentachlorobiphenyl	39635-32-0
151	3,3',4,5,5'-pentachlorobiphenyl	39635-33-1
152	2,3,3',4',5,5'-hexachlorobiphenyl	39635-34-2
153	2,3,3',4,5,5'-hexachlorobiphenyl	39635-35-3
154	2,2',3,3',4,5,6'-heptachlorobiphenyl	40186-70-7
155	2,2',3,3',4,5,6,6'-octachlorobiphenyl	40186-71-8
156	2,2',3,3',4,4',5,5',6'-nonachlorobiphenyl	40186-72-9
157	2,2',3,4,5,6-hexachlorobiphenyl	41411-61-4
158	2,3,3',4,5,6-hexachlorobiphenyl	41411-62-5
159	2,3,4,4',5,6-hexachlorobiphenyl	41411-63-6
160	2,3,3',4,4',5,6-heptachlorobiphenyl	41411-64-7
161	2,2',3,5'-tetrachlorobiphenyl	41464-39-5
162	2,2',4,5'-tetrachlorobiphenyl	41464-40-8
163	2,2',5,6'-tetrachlorobiphenyl	41464-41-9
164	2,3',5,5'-tetrachlorobiphenyl	41464-42-0
165	2,3,3',4'-tetrachlorobiphenyl	41464-43-1
166	2,3',4',6-tetrachlorobiphenyl	41464-46-4
167	2,2',3,6'-tetrachlorobiphenyl	41464-47-5
168	3,3',4,5'-tetrachlorobiphenyl	41464-48-6

169	2,3,3',5'-tetrachlorobiphenyl	41464-49-7
170	2,2',3,4',5'-pentachlorobiphenyl	41464-51-1
171	2,2',3,3',4,4',5,6'-octachlorobiphenyl	42740-50-1
172	2,2',3,4',5,5'-hexachlorobiphenyl	51908-16-8
173	2,3,4',6-tetrachlorobiphenyl	52663-58-8
174	2,2',3,4-tetrachlorobiphenyl	52663-59-9
175	2,2',3,3',6-pentachlorobiphenyl	52663-60-2
176	2,2',3,5,5'-pentachlorobiphenyl	52663-61-3
177	2,2',3,3',4-pentachlorobiphenyl	52663-62-4
178	2,2',3,5,5',6-hexachlorobiphenyl	52663-63-5
179	2,2',3,3',5,6,6'-heptachlorobiphenyl	52663-64-6
180	2,2',3,3',4,6,6'-heptachlorobiphenyl	52663-65-7
181	2,2',3,3',4,5'-hexachlorobiphenyl	52663-66-8
182	2,2',3,3',5,5',6-heptachlorobiphenyl	52663-67-9
183	2,2',3,4',5,5',6-heptachlorobiphenyl	52663-68-0
184	2,2',3,4,4',6-heptachlorobiphenyl	52663-69-1
185	2,2',3,3',4,5',6'-heptachlorobiphenyl	52663-70-4
186	2,2',3,3',4,4',6-heptachlorobiphenyl	52663-71-5
187	2,3',4,4',5,5'-HEXACHLOROBIPHENYL	52663-72-6
188	2,2',3,3',4,5,6,6'-octachlorobiphenyl	52663-73-7
189	2,2',3,3',4,5,5'-heptachlorobiphenyl	52663-74-8
190	2,2',3,3',4,5,5',6-octachlorobiphenyl	52663-75-9
191	2,2',3,4,4',5,5',6-octachlorobiphenyl	52663-76-0
192	2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl	52663-77-1
193	2,2',3,3',4,4',5,6-octachlorobiphenyl	52663-78-2
194	2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl	52663-79-3
195	2,2',3,3',5,6-hexachlorobiphenyl	52704-70-8
196	2,2',3,4,5,5'-hexachlorobiphenyl	52712-04-6
197	2,2',3,4,5,5',6-heptachlorobiphenyl	52712-05-7
198	2,2',3,3',5,6'-hexachlorobiphenyl	52744-13-5
199	Aroclor 1242	53469-21-9
200	3,4,5-trichlorobiphenyl	53555-66-1
201	Nonachloro-1,1'-biphenyl	53742-07-7
202	2,3,4,6-tetrachlorobiphenyl	54230-22-7
203	(±)-2,2',3,4,6-pentachlorobiphenyl	55215-17-3
204	2,2',3,3',4,5-hexachlorobiphenyl	55215-18-4
205	2,2',3,4,5-pentachlorobiphenyl	55312-69-1
206	2,3,6-trichlorobiphenyl	55702-45-9
207	2,3,4-trichlorobiphenyl	55702-46-0
208	2,3',4-trichlorobiphenyl	55712-37-3
209	2,3,5-trichlorobiphenyl	55720-44-0
210	octachlorobiphenyl	55722-26-4
211	(±)-2,2',3,4,4',6-hexachlorobiphenyl	56030-56-9
212	2,2',4,6,6'-pentachlorobiphenyl	56558-16-8
213	2,3',4,4',6-pentachlorobiphenyl	56558-17-9
214	2,3',4,5',6-pentachlorobiphenyl	56558-18-0
215	3,3',4,4',5-pentachlorobiphenyl	57465-28-8
216	2,2',3,4,4',6-hexachlorobiphenyl	59291-64-4
217	2,3',4,4',5',6-hexachlorobiphenyl	59291-65-5
218	2,2',3,3',5-pentachlorobiphenyl	60145-20-2
219	2,2',4,5',6-pentachlorobiphenyl	60145-21-3
220	2,2',4,4',5,6-hexachlorobiphenyl	60145-22-4
221	2,2',3,4,4',5,6'-heptachlorobiphenyl	60145-23-5
222	2,3',4,6-tetrachlorobiphenyl	60233-24-1
223	2,2',3,4',6-pentachlorobiphenyl	60233-25-2
224	2,2',3,3',4,6-hexachlorobiphenyl	61798-70-7
225	2,4,4'(or 3,4,4')-trichlorobiphenyl	62461-62-5
226	2,2',4,6-tetrachlorobiphenyl	62796-65-0
227	2,3',4,4',5'-pentachlorobiphenyl	65510-44-3
228	2,2',3,4,4'-pentachlorobiphenyl	65510-45-4
229	2,2',4,6-tetrachlorobiphenyl	68194-04-7
230	2,2',3,4',6-pentachlorobiphenyl	68194-05-8
231	2,2',4,5',6-pentachlorobiphenyl	68194-06-9
232	2,2',3,4',5-pentachlorobiphenyl	68194-07-0
233	2,2',3,4',6-hexachlorobiphenyl	68194-08-1
234	2,2',3,5,6,6'-hexachlorobiphenyl	68194-09-2
235	2,3,3',5',6-pentachlorobiphenyl	68194-10-5
236	2,3,4',5,6-pentachlorobiphenyl	68194-11-6
237	2,3',4,5,5'-pentachlorobiphenyl	68194-12-7
238	2,2',3,4',5,6-hexachlorobiphenyl	68194-13-8
239	2,2',3,4,5',6-hexachlorobiphenyl	68194-14-9
240	2,2',3,4,5,6-hexachlorobiphenyl	68194-15-0
241	2,2',3,3',4,5,6-heptachlorobiphenyl	68194-16-1
242	2,2',3,3',4,5,5',6-octachlorobiphenyl	68194-17-2
243	2,3,3',4,4',5'-hexachlorobiphenyl	69782-90-7
244	2,3,3',4',5,5',6-heptachlorobiphenyl	69782-91-8
245	2,4,4'-trichlorobiphenyl	7012-37-5
246	2,3,3',4,5'-pentachlorobiphenyl	70362-41-3
247	2,2',3,6-tetrachlorobiphenyl	70362-45-7
248	2,2',3,5-tetrachlorobiphenyl	70362-46-8
249	2,2',4,5-tetrachlorobiphenyl	70362-47-9
250	2,3',4',5'-tetrachlorobiphenyl	70362-48-0
251	3,3',4,5-tetrachlorobiphenyl	70362-49-1
252	3,4,4',5-tetrachlorobiphenyl	70362-50-4
253	2,3,3',5-tetrachlorobiphenyl	70424-67-8

254	2,3,3',4',5'-pentachlorobiphenyl	70424-68-9
255	2,3,3',4,5'-pentachlorobiphenyl	70424-69-0
256	2,3',4',5,5'-pentachlorobiphenyl	70424-70-3
257	2,3',4,5'-tetrachlorobiphenyl	73575-52-7
258	2,3',4,5-tetrachlorobiphenyl	73575-53-8
259	2,2',3,6,6'-pentachlorobiphenyl	73575-54-9
260	2,2',3,5,6'-pentachlorobiphenyl	73575-55-0
261	2,2',3,5,6-pentachlorobiphenyl	73575-56-1
262	2,2',3,4,6'-pentachlorobiphenyl	73575-57-2
263	2,3',5',6-tetrachlorobiphenyl	74338-23-1
264	2,3,3',4-tetrachlorobiphenyl	74338-24-2
265	2,3,3',6-tetrachlorobiphenyl	74472-33-6
266	2,3,4',5-tetrachlorobiphenyl	74472-34-7
267	2,3,3',4,6-pentachlorobiphenyl	74472-35-8
268	2,3,3',5,6-pentachlorobiphenyl	74472-36-9
269	2,3,4,4',5-pentachlorobiphenyl	74472-37-0
270	2,3,4,4',6-pentachlorobiphenyl	74472-38-1
271	2,3',4',5',6-pentachlorobiphenyl	74472-39-2
272	2,2',3,4,6,6'-hexachlorobiphenyl	74472-40-5
273	2,2',3,4',5,6'-hexachlorobiphenyl	74472-41-6
274	2,3,3',4,4',6-hexachlorobiphenyl	74472-42-7
275	2,3,3',4,5',6-hexachlorobiphenyl	74472-43-8
276	2,3,3',4',5,6-hexachlorobiphenyl	74472-44-9
277	2,3,3',4',5',6-hexachlorobiphenyl	74472-45-0
278	2,3,3',5,5',6-hexachlorobiphenyl	74472-46-1
279	2,2',3,4,4',5,6-heptachlorobiphenyl	74472-47-2
280	2,2',3,4,4',6,6'-heptachlorobiphenyl	74472-48-3
281	2,2',3,4,5,6,6'-heptachlorobiphenyl	74472-49-4
282	2,3,3',4,4',5',6-heptachlorobiphenyl	74472-50-7
283	2,3,3',4,5,5',6-heptachlorobiphenyl	74472-51-8
284	2,2',3,4,4',5,6,6'-octachlorobiphenyl	74472-52-9
285	2,3,3',4,4',5,5',6-octachlorobiphenyl	74472-53-0
286	2,2',3,4',5,6,6'-heptachlorobiphenyl	74487-85-7
287	2,3,3',4',5'-pentachlorobiphenyl	76842-07-4
288	Mixture of PCB 1248 and PCB 1254	89000-29-3
289	2,4',?-trichlorobiphenyl	94487-00-0
290	2,3,?(or 3,4,?)-trichlorobiphenyl	97122-18-4
291	2,4,?(2,6,? or 3,5,?)-trichlorobiphenyl	97122-20-8
292	(±)-2,2',3,4,6-pentachlorobiphenyl	99554-08-2
293	(±)-2,2',3,4,4',6-hexachlorobiphenyl	99554-09-3
294	(+)-2,2',3,4,6-pentachlorobiphenyl	99554-10-6
295	(-)-2,2',3,4,6-pentachlorobiphenyl	99554-11-7
296	(+)-2,2',3,4,4',6-hexachlorobiphenyl	99554-12-8
297	(-)-2,2',3,4,4',6-hexachlorobiphenyl	99554-13-9
Polychlorinated Naphthalenes (PCNs)		
1	1,2,4,5,7,8-Hexachloronaphthalene	103426-92-2
2	1,2,3,4,5,8-Hexachloronaphthalene	103426-93-3
3	1,2,3,5,7,8-Hexachloronaphthalene	103426-94-4
4	1,2,3,5,6,8-Hexachloronaphthalene	103426-95-5
5	1,2,3,4,6,7-Hexachloronaphthalene	103426-96-6
6	1,2,3,5,6,7-Hexachloronaphthalene	103426-97-7
7	Pentachloronaphthalene	1321-64-8
8	Naphthalene, trichloro-	1321-65-9
9	Hexachloronaphthalene	1335-87-1
10	Tetrachloronaphthalene	1335-88-2
11	1,2,3,6-Tetrachloronaphthalene	149864-78-8
12	1,2,6,7-Tetrachloronaphthalene	149864-79-9
13	1,2,5,8-Tetrachloronaphthalene	149864-80-2
14	1,2,3,8-Tetrachloronaphthalene	149864-81-3
15	1,2,7,8-Tetrachloronaphthalene	149864-82-4
16	1,2,3,7,8-Pentachloronaphthalene	150205-21-3
17	1,3,6,8-Tetrachloronaphthalene	150224-15-0
18	1,2,3,6,7-Pentachloronaphthalene	150224-16-1
19	1,2,4,6,7-Pentachloronaphthalene	150224-17-2
20	1,2,3,5,6-Pentachloronaphthalene	150224-18-3
21	1,2,4,5,7-Pentachloronaphthalene	150224-19-4
22	1,2,4,5,6-Pentachloronaphthalene	150224-20-7
23	1,2,4,7,8-Pentachloronaphthalene	150224-21-8
24	1,2,4,6,8-Pentachloronaphthalene	150224-22-9
25	1,2,3,6,8-Pentachloronaphthalene	150224-23-0
26	1,2,3,5,8-Pentachloronaphthalene	150224-24-1
27	1,2,4,5,8-Pentachloronaphthalene	150224-25-2
28	1,2,3,6,7,8-Hexachloronaphthalene	17062-87-2
29	1,5-Dichloronaphthalene	1825-30-5
30	1,4-Dichloronaphthalene	1825-31-6
31	1,2,3,4-Tetrachloronaphthalene	20020-02-4
32	1,2-Dichloronaphthalene	2050-69-3
33	1,6-Dichloronaphthalene	2050-72-8
34	1,7-Dichloronaphthalene	2050-73-9
35	1,8-Dichloronaphthalene	2050-74-0
36	2,3-Dichloronaphthalene	2050-75-1
37	2,6-Dichloronaphthalene	2065-70-5
38	1,3-Dichloronaphthalene	2198-75-6
39	2,7-Dichloronaphthalene	2198-77-8
40	Perchloronaphthalene; 1,2,3,4,5,6,7,8-Octachloronaphthalene	2234-13-1
41	1,4,6-Trichloronaphthalene	2437-54-9

	42	1,4,5-Trichloronaphthalene	2437-55-0
	43	Dichloronaphthalene	28699-88-9
	44	1,3,5,8-Tetrachloronaphthalene	31604-28-1
	45	Heptachloronaphthalene	32241-08-0
	46	1,4,5,8-Tetrachloronaphthalene	3432-57-3
	47	2,3,6,7-Tetrachloronaphthalene	34588-40-4
	48	1,2,4-Trichloronaphthalene	50402-51-2
	49	1,2,3-Trichloronaphthalene	50402-52-3
	50	1,3,5-Trichloronaphthalene	51570-43-5
	51	1,2,6-Trichloronaphthalene	51570-44-6
	52	1,2,4,6-Tetrachloronaphthalene	51570-45-7
	53	1,2,3,5-Tetrachloronaphthalene	53555-63-8
	54	1,3,5,7-Tetrachloronaphthalene	53555-64-9
	55	1,2,3,5,7-Pentachloronaphthalene	53555-65-0
	56	1,2,5-Trichloronaphthalene	55720-33-7
	57	1,2,7-Trichloronaphthalene	55720-34-8
	58	1,2,8-Trichloronaphthalene	55720-35-9
	59	1,3,6-Trichloronaphthalene	55720-36-0
	60	1,3,7-Trichloronaphthalene	55720-37-1
	61	1,3,8-Trichloronaphthalene	55720-38-2
	62	1,6,7-Trichloronaphthalene	55720-39-3
	63	2,3,6-Trichloronaphthalene	55720-40-6
	64	1,2,3,7-Tetrachloronaphthalene	55720-41-7
	65	1,3,6,7-Tetrachloronaphthalene	55720-42-8
	66	1,4,6,7-Tetrachloronaphthalene	55720-43-9
	67	1,2,3,4,5,6,7-Heptachloronaphthalene	58863-14-2
	68	1,2,3,4,5,6,8-Heptachloronaphthalene	58863-15-3
	69	1,2,3,4,5,6-Hexachloronaphthalene	58877-88-6
	70	1,2,4,8-Tetrachloronaphthalene	6529-87-9
	71	1,2,4,5-Tetrachloronaphthalene	6733-54-6
	72	1,2,4,7-Tetrachloronaphthalene	67922-21-8
	73	1,2,5,6-Tetrachloronaphthalene	67922-22-9
	74	1,2,5,7-Tetrachloronaphthalene	67922-23-0
	75	1,2,6,8-Tetrachloronaphthalene	67922-24-1
	76	1,2,3,4,5-Pentachloronaphthalene	67922-25-2
	77	1,2,3,4,6-Pentachloronaphthalene	67922-26-3
	78	1,2,3,4,5,7-Hexachloronaphthalene	67922-27-4
	79	Polychlorinated naphthalenes	70776-03-3
	80	1,2,4,5,6,8-Hexachloronaphthalene	90948-28-0
Chlordane , pur	1	1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]deca-8-ene	57-74-9
	2	1,5,7,8,9,10,10-Heptachlorotricyclo[5.2.1.0(2,6)]deca-3,8-diene	76-44-8
	3	rel-(1R,2S,3R,4S,6S,7S)-1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]deca-8-ene	5103-71-9
	4	rel-(1R,2S,3R,4R,6S,7S)-1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]deca-8-ene	5103-74-2
	5	1,4,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]deca-8-ene	5566-34-7
	6	1,8,9,10,11,11-Hexachloro-4-oxatetracyclo[6.2.1.0(2,7).0(3,5)]undec-9-ene	6058-23-7
	7	Chlordane	12789-03-6
	8	rel-(1aR,1bS,2R,5S,5aR,6S,6aS)-2,3,4,5,6,6a,7,7-Octachloro-1a,1b,5,5a,6,6a-hexahydro-2H-2,5-methanoindeno[1,2-b]oxirene	27304-13-8
	9	rel-(1R,4S,7S,8S,9S)-2,3,4,5,6,9-Hexachlorotricyclo[5.2.1.0(4,8)]deca-2,5-diene	56534-03-3
	10	rel-(1R,4S,7S,8S,10S)-2,3,4,5,6,10-Hexachlorotricyclo[5.2.1.0(4,8)]deca-2,5-diene	56641-38-4
1,4-Benzenediamine, N,N'-bis(methylphenyl)-	1	N,N'-Di-4-tolyl-1,4-phenylenediamine	620-91-7
	2	N,N'-Di-2-tolyl-1,4-phenylenediamine	15017-02-4
	3	N,N'-Ditolyl-1,4-phenylenediamine	27417-40-9
	4	N,N'-Bis(dimethylphenyl)-1,4-phenylenediamine	28726-30-9
	5	N-(Dimethylphenyl)-N'-tolyl-1,4-phenylenediamine	70290-05-0
	6	1,4-Benzenediamine, N,N'-mixed phenyl and tolyl derivs	68953-84-4
Perfluorooctanesulfonic Acid	1	Perfluorooctane sulfonic acid; Heptadecafluorooctane-1-sulfonic acid	1763-23-1
	2	1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulphonic acid (1:1)	251099-16-8
	3	Potassium perfluorooctanesulfonate; Potassium heptadecafluorooctane-1-sulfonate	2795-39-3
	4	Ammonium perfluorooctane sulfonate; Ammonium heptadecafluorooctanesulfonate	29081-56-9
	5	Lithium perfluorooctane sulfonate; Lithium heptadecafluorooctanesulfonate	29457-72-5
	6	Ethanaminium, N,N,N'-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulphonic acid (1:1)	56773-42-3
	7	Diethanolamine perfluorooctane-1-sulfonate	70225-14-8
	8	Piperidin-1-ium perfluorooctane-1-sulfonate	71463-74-6
	9	Sodium perfluorooctane-1-sulfonate	4021-47-0
	10	Magnesium bis(perfluorooctane-1-sulfonate)	91036-71-4
Polybrominated Biphenyls (PBBs)	1	2,2',3,3',4,6'-Hexabromobiphenyl	119264-50-5
	2	2,2',3,3',5,6'-Hexabromobiphenyl	119264-51-6
	3	2,2',3,4,5',6'-Hexabromobiphenyl	119264-52-7
	4	2,2',3,5,5',6'-Hexabromobiphenyl	119264-53-8
	5	2,2',3,4,5,5'-Hexabromobiphenyl	120991-47-1
	6	2,3,3',4,5,5'-Hexabromobiphenyl	120991-48-2
	7	Hexabromobiphenyl	36355-01-8
	8	2,2',4,4',5,6'-Hexabromobiphenyl	36402-15-0
	9	2,2',3,3',5,5'-Hexabromobiphenyl	55066-76-7
	10	1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo-	59080-40-9
	11	2,2',4,4',6,6'-Hexabromobiphenyl	59261-08-4
	12	3,3',4,4',5,5'-Hexabromobiphenyl	60044-26-0
	13	2,2',3,4,4',5'-Hexabromobiphenyl	67888-98-6
	14	2,3',4,4',5,5'-Hexabromobiphenyl	67888-99-7
	15	2,2',3,4',5',6'-Hexabromobiphenyl	69278-59-7
	16	2,3,3',4,4',5-Hexabromobiphenyl	77607-09-1
	17	2,2',3,4,4',5-Hexabromobiphenyl	81381-52-4
	18	2,2',3,3',4,4'-Hexabromobiphenyl	82865-89-2
	19	2,2',3,3',4,5'-Hexabromobiphenyl	82865-90-5
	20	2,3,3',4',5',6'-Hexabromobiphenyl	82865-91-6

	21	2,3,3',4,4',5'-Hexabromobiphenyl	84303-47-9
	22	2,3',4,4',5',6'-Hexabromobiphenyl	84303-48-0
	23	2,2',3,4',6,6'-Hexabromobiphenyl	93261-83-7
Polybrominated Diphenylethers (PBDEs)	1	1,3-Dibromo-5-(3,5-dibromophenoxy)benzene	103173-66-6
	2	Bis(pentabromophenyl)ether (decabromodiphenyl ether; decaBDE)	1163-19-5
	3	1,2,4,5-Tetrabromo-3-(2,4,6-tribromophenoxy)benzene	116995-32-5
	4	Benzen,1,2,4,5-tetrabromo-3-(2,4-dibromophenoxy)-	116995-33-6
	5	1,2,3,5-Tetrabromo-4-(2,4,6-tribromophenoxy)benzene	117948-63-7
	6	1,2,3,4,5-Pentabromo-6-phenoxybenzene	189084-65-9
	7	1,3,5-Tribromo-2-(2,4,5-tribromophenoxy)benzene	207122-15-4
	8	1,2,3,5-Tetrabromo-4-(2,4,5-tribromophenoxy)benzene	207122-16-5
	9	Tribromo(tribromophenoxy)benzene	31153-30-7
	10	Pentabromodiphenyl ether C ₁₂ H ₅ Br ₅ O	32534-81-9
	11	1,3,5-Tribromo-2-(2,4,6-tribromophenoxy)benzene	35854-94-5
	12	Hexabromodiphenyl ether C ₁₂ H ₄ Br ₆ O	36483-60-0
	13	Tetrabromodiphenyl ether C ₁₂ H ₆ Br ₄ O	40088-47-9
	14	1,2,3,5-Tetrabromo-4-(2,3,5-tribromophenoxy)benzene	446255-22-7
	15	2,2',4,4'-tetrabromodiphenyl ether	5436-43-1
	16	1,2,4-Tribromo-5-(2,4-dibromophenoxy)benzene	60348-60-9
	17	1,2,4-Tribromo-5-(2,4,5-tribromophenoxy)benzene	68631-49-2
	18	Heptabromodiphenyl ether C ₁₂ H ₃ Br ₇ O	68928-80-3
	19	1,2-Dibromo-4-(3,4-dibromophenoxy)benzene	93703-48-1
Endosulfan	1	1,9,10,11,12,12-Hexachloro-5-oxo-4,6-dioxo-5lambda(4)-thiatriacyclo[7.2.1.0(2,8)]dodec-10-ene	115-29-7
	2	Alpha (α) endosulfan	959-98-8
	3	Beta (β) endosulfan	33213-65-9
Hexabromocyclododecane (HBCDD)	1	rel-(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	134237-50-6
	2	rel-(1R,2S,5R,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	134237-51-7
	3	rel-(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	134237-52-8
	4	(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-17-7
	5	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-18-8
	6	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-19-9
	7	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	169102-57-2
	8	Hexabromocyclododecane	25637-99-4
	9	1,2,5,6,9,10-hexabromocyclododecane	3194-55-6
	10	rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	4736-49-6
	11	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	65701-47-5
	12	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-15-5
	13	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-16-6
	14	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	678970-17-7
	15	Cyclododecane, 1,2,4,6,9,10-hexabromo-	74398-41-7
	16	Cyclododecane, 1,2,4,5,8,9-hexabromo-	673456-49-0
	17	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2R,5R,6R,9R,10R)-	878049-04-8
	18	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1S,2S,5R,6R,9R,10R)-	878049-05-9
	19	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2S,5R,6R,9S,10S)-rel-	878049-06-0
	20	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2S,5S,6S,9R,10R)-rel-	878049-07-1
	21	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2S,5R,6R,9R,10R)-	878049-08-2
	22	Cyclododecane, 1,2,3,4,5,6-hexabromo-	1027045-74-4
	23	Cyclododecane, 1,3,5,7,9,11-hexabromo-	1093632-34-8
	24	Cyclododecane, 1,1,2,2,3,3-hexabromo-	1235106-66-7
	25	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1S,2S,5S,6S,9S,10S)-	1380399-84-7
	26	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2R,5S,6S,9S,10S)-	1380399-85-8
	27	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2R,5S,6R,9S,10S)-	1380399-86-9
	28	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2S,5S,6S,9S,10S)-	1380399-87-0
	29	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2R,5R,6R,9R,10S)-rel-	1392102-29-2
	30	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2R,5R,6R,9S,10S)-rel-	1392102-30-5
	31	Cyclododecane, 1,2,5,6,9,10-hexabromo-, (1R,2R,5R,6R,9R,10R)-rel-	1392102-31-6
Pentachlorophenol and its salts and esters	1	Bis(pentachlorophenyl) carbonate	7497-08-7
	2	Pentachlorophenyl oleate	10443-46-6
	3	Sodium Pentachlorophenolate	131-52-2
	4	Pentachlorophenyl N(2)-[(benzyloxy)carbonyl]-L-glutamate	13673-51-3
	5	Pentachlorophenyl N-[(benzyloxy)carbonyl]-L-isoleucinate	13673-53-5
	6	Perchlorophenyl S-benzyl-N-(benzyloxycarbonyl)-L-cysteinate	13673-54-6
	7	Pentachlorophenyl N-[(4-methoxybenzyloxy)carbonyl]-L-serinate	23234-97-1
	8	Sodium pentachlorophenolate decahydrate	27735-63-3
	9	Sodium pentachlorophenolate monohydrate	27735-64-4
	10	Pentachlorophenyl (S)-5-oxopyrrolidine-2-carboxylate	28990-85-4
	11	Copper(II) bis(2,3,4,5,6-pentachlorophenolate)	2917-31-9
	12	Zinc bis(pentachlorophenolate)	2917-32-0
	13	Phenol, pentachloro-, compd. with 2,2',2''-nitrioltris[ethanol] (1:1)	32978-79-3
	14	Pentachlorophenol, compound with [1R-[1alpha,4beta,10alpha)]-1,2,3,4,4a,9,10,10a-octahydro-7-isopropyl-1,4a-dimethylphenanthrene-1-methylamine (1:1)	35109-57-0
	15	Tributyl(pentachlorophenoxy)stannane	3644-38-0
	16	Benzoic acid, 2-hydroxy-, pentachlorophenyl ester	36994-69-1
	17	Pentachlorophenyl laurate	3772-94-9
	18	Perchlorophenyl 5-oxo-D-prolinate	50654-95-0
	19	Pentachlorophenyl N-[(benzyloxy)carbonyl]-L-tyrosinate	55593-07-2
	20	Calcium bis(pentachlorophenolate)	55868-72-9
	21	Perchlorophenyl 5-oxo-DL-prolinate	67246-71-3
	22	Potassium pentachlorophenate (Phenol, 2,3,4,5,6-pentachloro-, potassium salt (1:1))	7778-73-6
	23	1-Hexadecanaminium, N,N,N-trimethyl-, salt with pentachlorophenol (1:1)	87-76-3
	24	2,3,4,5,6-Pentachlorophenol	87-86-5
	25	Compounds of coco alkyl amines and pentachlorophenol (1:1)	90640-52-1
	26	Coco-alkyl(trimethyl)ammonium pentachlorophenolates	91080-93-2
	27	Methyl(pentachlorophenolato)mercury	5902-76-1
	28	Pentachlorophenyl ester of fatty acids(C=8-12)	98219-40-0
	29	Pentachlorophenyl ester of fatty acids(C=16-18)	98219-41-1

Short chain chlorinated paraffins (C10-13)	1	Chloroalkanes(C=10-22)	104948-36-9
	2	Alkanes, C10-12, chloro	108171-26-2
	3	Undecane, 1,1,1,3,5,7,9,11,11-nonachloro-	18993-26-5
	4	Undecane, heptachloro-	219697-10-6
	5	Undecane, nonachloro-	219697-11-7
	6	Undecane, 1,2,10,11,2,2,2,2-octachloro-	221174-07-8
	7	Undecane, decachloro-	276673-33-7
	8	Undecane, octachloro-	36312-81-9
	9	Undecane, 1,1,1,3,6,7,10,11-octachloro-	601523-20-0
	10	Undecane, 1,1,1,3,9,11,11,11-octachloro-	601523-25-5
	11	Alkanes, chloro; chloroparaffins	61788-76-9
	12	Paraffin waxes, chloro	63449-39-8
	13	1,1,1,2-Tetrachloroundecane	63981-28-2
	14	Chlorinated n-paraffins (C6-18)	68920-70-7
	15	Chlorinated microcrystalline hydrocarbon waxes (petroleum)	68938-43-2
	16	Alkanes, C12-13, chloro	71011-12-6
	17	Alkanes, C10-21, chloro	84082-38-2
	18	Alkanes, C10-32, chloro	84776-06-7
	19	Chloroparaffin oils	85422-92-0
	20	Alkanes, C10-13, chloro	85535-84-8
	21	Alkanes, C12-14, chloro	85536-22-7
	22	Alkanes, C10-14, chloro	85681-73-8
	23	Paraffins (petroleum), normal C>10, chloro	97553-43-0
	24	Alkanes, C10-26, chloro	97659-46-6
	25	Chloroalkanes(C=12-16)	866758-65-8
Ozone depleting substances	1	1,1,1,2-Tetrachlor-2,2-difluoroethane(CFC-112)	76-11-9
	2	2-chloro-1,3-difluoropropane(HCFC-262)	102738-79-4
	3	Chlorofluoroethane(HCFC-151)	110587-14-9
	4	1,1-Dichloro-1,2,3,3,3-pentafluoropropane(HCFC-225)	111512-56-2
	5	2-Bromo-1,1,1,2-tetrafluoroethane (HBFC-124 B1)	124-72-1
	6	1,2-Dibromo-1,1,2,2-tetrafluoroethane (Halon-2402)	124-73-2
	7	Tetrachlorodifluoropropane(HCFC-232)	127564-82-3
	8	Dichlorotetrafluoropropane(HCFC-234)	127564-83-4
	9	Trichlorodifluoropropane(HCFC-242)	127564-90-3
	10	Trichlorotetrafluoropropane(HCFC-224)	127564-91-4
	11	1,2-Dichloro-1,1,3,3,3-pentafluoropropane(HCFC-225)	127564-92-5
	12	2,2-Dichloro-1,1,1,3,3-pentafluoropropane(HCFC-225)	128903-21-9
	13	Dichlorotetrafluoroethane(CFC-114)	1320-37-2
	14	Chlorotrifluoroethane(HCFC-133)	1330-45-6
	15	Pentachlorofluoropropane(HCFC-231)	134190-48-0
	16	Tetrachlorofluoropropane(HCFC-241)	134190-49-1
	17	Chlorotetrafluoropropane(HCFC-244)	134190-50-4
	18	Trichlorofluoropropane(HCFC-251)	134190-51-5
	19	Dichlorodifluoropropane(HCFC-252)	134190-52-6
	20	Chlorodifluoropropane(HCFC-262)	134190-53-7
	21	Chlorofluoropropane(HCFC-271)	134190-54-8
	22	Pentachlorotrifluoropropane(CFC-213)	134237-31-3
	23	1,1,2,2-Tetrachloro-1-fluoroethane(HCFC-121)	134237-32-4
	24	1,2,2-Trichloro-1,1-difluoroethane(HCFC-122)	134237-33-5
	25	1,1,2-Trichloro-2-fluoroethane(HCFC-131)	134237-34-6
	26	Hexachlorofluoropropane(HCFC-221)	134237-35-7
	27	Pentachlorodifluoropropane(HCFC-222)	134237-36-8
	28	1,1,3,3-Tetrachloro-1,2,2-trifluoropropane(HCFC-223)	134237-37-9
	29	1,3,3-Trichloro-1,1,2,2-tetrafluoropropane(HCFC-224)	134237-38-0
	30	Tetrachlorodifluoropropane(HCFC-232)	134237-39-1
	31	Trichlorotrifluoropropane(HCFC-233)	134237-40-4
	32	Chloropentafluoropropane(HCFC-235)	134237-41-5
	33	Trichlorodifluoropropane(HCFC-242)	134237-42-6
	34	Dichlorotrifluoropropane(HCFC-243)	134237-43-7
	35	Chlorotrifluoropropane(HCFC-253)	134237-44-8
	36	Dichlorofluoropropane(HCFC-261)	134237-45-9
	37	2-Chloro-1,1,1,3,3,3-hexafluoropropane(HCFC-226)	134308-72-8
	38	1,1-Dichloro-1,2,2,3,3-pentafluoropropane(HCFC-225)	13474-88-9
	39	1,3-Dichloro-1,1,2,3,3-pentafluoropropane(HCFC-225)	136013-79-1
	40	Bromodifluoromethane(HBFC-22B1)	1511-62-2
	41	1,2,2-Trichloro-1,1,3,3,3-pentafluoropropane(CFC-215)	1599-41-3
	42	1-Chloro-1-fluoroethane (HCFC-151a)	1615-75-4
	43	Ethane, 1,1-dichloro-1-fluoro-(HCFC-141b)	1717-00-6
	44	Dibromofluoromethane	1868-53-7
	45	1-Bromo-1,1,2,3,3,3-hexafluoropropane	2252-78-0
	46	Dichlorofluoroethane(HCFC-141)	25167-88-8
	47	Chlorodifluoroethanes(HCFC-142)	25497-29-4
	48	Dibromotetrafluoroethane(Halon-2402)	25497-30-7
	49	Dichlorodifluoroethane(HCFC-132)	25915-78-0
	50	Trichlorotrifluoroethane(CFC-113)	26523-64-8
	51	Trichlorofluoroethane(HCFC-131)	27154-33-2
	52	1,1-Dibromo-1,2,2,2-tetrafluoroethane(Halon-2402)	27336-23-8
	53	Ethane, 2-chloro-1,1,1,2-tetrafluoro-(HCFC-124)	2837-89-0
	54	Tetrachlorodifluoroethane(CFC-112)	28605-74-5
	55	Tetrachlorotetrafluoropropane(CFC-214)	29255-31-0
	56	Ethane, 2,2-dichloro-1,1,1-trifluoro-(HCFC-123)	306-83-2
	57	1,1,1,3,3,3-Hexachlor-2,2-difluoropropane(CFC-212)	3182-26-1
	58	Ethane, 1-chloro-1,2-difluoro-(HCFC-142)	338-64-7
	59	Dichlorotrifluoroethane(HCFC-123)	34077-87-7
	60	Bromochlorodifluoromethane(Halon-1211)	353-59-3

61	1,1,1,2-Tetrachloro-2-fluoroethane(HCFC-121)	354-11-0
62	1,1,2,2-Tetrachloro-1-fluoroethane(HCFC-121)	354-14-3
63	Ethane, 1,2-difluoro-1,1,2-trichloro-(HCFC-122)	354-15-4
64	1,2-Dichloro-1,1,2-trifluoroethane(HCFC-123a)	354-23-4
65	1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	354-25-6
66	1,1,1,2,2-Pentachloro-2-fluoroethane(CFC-111)	354-56-3
67	1,1,1-Trichloro-2,2,2-trifluoroethane(CFC-113)	354-58-5
68	1,2-Dibromo-1-fluoroethane	358-97-4
69	2-Bromo-1,1-difluoroethane	359-07-9
70	Bromofluoromethane	373-52-4
71	1,1-Dichloro-1,2,2,2-tetrafluoroethane(CFC-114)	374-07-2
72	1-chloro-1,1,2-trifluoroethane(HCFC-133)	421-04-5
73	2-Bromo-1,1,1-trifluoroethane	421-06-7
74	1,2-Dichloro-1,1,2,3,3-pentafluoropropane(HCFC-225)	422-44-6
75	2,3-Dichloro-1,1,1,2,3-pentafluoropropane(HCFC-225)	422-48-0
76	1-Chloro-1,1,2,2,3,3-hexafluoropropane(HCFC-226)	422-55-9
77	1,1-Dichloro-2,2,3,3,3-pentafluoropropane(HCFC-225ca)	422-56-0
78	3-Chloro-1,1,1,2,2,3-hexafluoropropane(HCFC-226)	422-57-1
79	1-Chloro-1,1,2,2,3,3,3-heptafluoropropane(CFC-217)	422-86-6
80	Dichlorohexafluoropropane(CFC-216)	42560-98-5
81	1,2-Dichloro-1-fluoroethane(HCFC-141)	430-57-9
82	1-chloro-1,2,2-trifluoroethane(HCFC-133)	431-07-2
83	1,2-Dichloro-1,1,3,3,3-pentafluoropropane(HCFC-225)	431-86-7
84	1,3-Dichloro-1,1,2,2,3-pentafluoropropane(HCFC-225cb)	507-55-1
85	Carbon tetrachloride	56-23-5
86	Chlorofluoromethane(HCFC-31)	593-70-4
87	Chlorotetrafluoroethane(HCFC-124)	63938-10-3
88	1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane(CFC-216)	661-97-2
89	1,1,1-Trichloroethane	71-55-6
90	Bromomethane	74-83-9
91	Bromochloromethane	74-97-5
92	Dichlorofluoromethane(HCFC-21)	75-43-4
93	Chlorodifluoromethane(HCFC-22)	75-45-6
94	Bromotrifluoromethane(Halon-1301)	75-63-8
95	1-Chloro-1,1-difluoroethane(HCFC-142b)	75-68-3
96	Trichlorofluoromethane(CFC-11)	75-69-4
97	Dichlorodifluoromethane(CFC-12)	75-71-8
98	Chlorotrifluoromethane(CFC-13)	75-72-9
99	2-Chloro-1,1,1-trifluoroethane(HCFC-133)	75-88-7
100	1,1,2,2-Tetrachloro-1,2-difluoroethane(CFC-112)	76-12-0
101	1,1,2-trichloro-1,2,2-trifluoroethane(CFC-113)	76-13-1
102	1,2-Dichloro-1,1,2,2-tetrafluoroethane(CFC-114)	76-14-2
103	1-Chloro-1,1,2,2,2-pentafluoroethane(CFC-115)	76-15-3
104	2-Chloro-1,1,1,2,3,3,3-heptafluoropropane(CFC-217)	76-18-6
105	1-Bromo-2-fluoroethane	762-49-2
106	1-Chloro-2-fluoroethane(HCFC-151)	762-50-5
107	1,1-Dichloro-1-fluoropropane(HCFC-261)	7799-56-6
108	1,1,2-Trichloro-1-fluoroethane(HCFC-131)	811-95-0
109	1,1,3-trichloro-1-fluoropropane(HCFC-251)	818-99-5
110	Propane, heptachlorofluoro-(CFC-211)	-
111	Hexachlorodifluoropropane(CFC-212)	-
112	Trichloropentafluoropropane(CFC-215)	-
113	Chloroheptafluoropropane(CFC-217)	-
114	Trichlorodifluoroethane(HCFC-122)	-
115	Tetrabromofluoroethane	-
116	Tribromodifluoroethane	-
117	Dibromotrifluoroethane	-
118	Bromotetrafluoroethane	-
119	Tribromofluoroethane	-
120	Dibromodifluoroethane	-
121	Bromotrifluoroethane	-
122	Dibromofluoroethane	-
123	Bromodifluoroethane	-
124	Bromofluoroethane	-
125	Hexabromofluoropropane	-
126	Pentabromodifluoropropane	-
127	Tetrabromotrifluoropropane	-
128	Tribromotetrafluoropropane	-
129	Dibromopentafluoropropane	-
130	Bromohexafluoropropane	-
131	Pentabromofluoropropane	-
132	Tetrabromodifluoropropane	-
133	Tribromotrifluoropropane	-
134	Dibromotetrafluoropropane	-
135	Bromopentafluoropropane	-
136	Tetrabromofluoropropane	-
137	Tribromodifluoropropane	-
138	Dibromotrifluoropropane	-
139	Bromotetrafluoropropane	-
140	Tribromofluoropropane	-
141	Dibromodifluoropropane	-
142	Bromotrifluoropropane	-
143	Dibromofluoropropane	-
144	Bromodifluoropropane	-
145	Bromofluoropropane	-

Asbestos	1	Crocidolite	12001-28-4
	2	Chrysotile	12001-29-5
	3	Amosite	12172-73-5
	4	Asbestos	1332-21-4
	5	Actinolite	77536-66-4
	6	Anthophyllite	77536-67-5
	7	Tremolite	77536-68-6
Azo dye, pigment forming specific amine	1	4-Aminoazobenzene	60-09-3
	2	2,2'-Dichloro-4,4'-methylenedianiline; 4,4'-Methylene bis(2-chloroaniline)	101-14-4
	3	4,4'-Diaminodiphenylmethane; 4,4'-methylenedianiline	101-77-9
	4	4,4'-Oxydianiline; p-Aminophenyl ether	101-80-4
	5	4-Chloraniline	106-47-8
	6	3,3'-Dimethoxybenzidine; o-dianisidine	119-90-4
	7	3,3'-Dimethylbenzidine; o-tolidine; 4,4'-bi-o-toluidine	119-93-7
	8	6-Methoxy-m-toluidine; p-cresidine	120-71-8
	9	2,4,5'-Trimethylaniline	137-17-7
	10	4,4'-Thiodianiline	139-65-1
	11	2,4-Diaminoanisole; 4-methoxy-m-phenylenediamine	615-05-4
	12	4,4'-Methylenedi-o-toluidine	838-88-0
	13	Aniline, 2,6-dimethyl-	87-62-7
	14	2-Methoxyaniline; o-anisidine	90-04-0
	15	2-Naphthylamine; beta-naphthylamine	91-59-8
	16	3,3'-Dichlorobenzidine; 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1
	17	4-Aminobiphenyl; Biphenyl-4-ylamine	92-67-1
	18	Benzidine; 4,4'-diaminobiphenyl	92-87-5
	19	o-Toluidine; 2-aminotoluene	95-53-4
	20	2,4-Dimethylaniline	95-68-1
	21	4-Chloro-o-toluidine	95-69-2
	22	4-Methyl-m-phenylenediamine; 2,4-Toluenediamine	95-80-7
	23	4-o-Tolylazo-o-toluidine; o-aminoazotoluene	97-56-3
	24	5-nitro-o-toluidine	99-55-8
Trisubstituted organotin compound (Triphenyltin compounds)	1	Bis(triphenyltin) oxide	1262-21-1
	2	[(Aminosulfonyl)oxy]triphenylstannane	13362-00-0
	3	(TB-5-11)-N,N,N-Tributyl-1-butanaminium difluorotriphenylstannate	139353-88-1
	4	4-Methyl-N-phenyl-N-(triphenylstanny)benzenesulfonamide	172777-09-2
	5	Triphenyltin dimethylthiocarbamate	1803-12-9
	6	Triphenylstannyl 2,2,4,4-tetramethylpentanoate	18380-71-7
	7	Triphenylstannyl 2-isopropyl-2,3-dimethylbutanoate	18380-72-8
	8	[1,2-Phenylenebis(carboxyloxy)]bis(triphenylstannane]	1954-36-5
	9	2,7-Dioxa-1,8-distannaoctane, 4-dodecyl-3,6-dioxo-1,1,1,8,8,8-hexaphenyl-	2591-32-4
	10	[(1-Oxododecyl)oxy]triphenylstannane	2644-29-9
	11	Triphenyltin fluoride	379-52-2
	12	Triphenylstannyl decanoate	47672-31-1
	13	Stannane, [(4-nitrobenzoyl)oxy]triphenyl-	61057-41-8
	14	Triphenyl tin chloride	639-58-7
	15	(Chloroacetoxy)triphenylstannane	7094-94-2
	16	2-[[[(Triphenylstannyloxy]carbonyl]benzoate	7224-27-3
	17	Pyridine, 3-[[[(triphenylstannyloxy]carbonyl]-	7552-16-1
	18	Triphenyltin hydroxide	76-87-9
	19	Stannane, [(2-nitrobenzoyl)oxy]triphenyl-	83500-88-3
	20	Stannane, [(3-nitrobenzoyl)oxy]triphenyl-	83514-66-3
	21	Triphenyltin hydride	892-20-6
	22	Stannane, acetoxytriphenyl-	900-95-8
	23	(Benzoyloxy)triphenylstannane	910-06-5
	24	Triphenyltin fattyacid(9-11)salt	94850-90-5
	25	[1,4-Phenylenebis(carboxyloxy)]bis(triphenylstannane]	97922-83-3
	26	(4E)-3,6-Dioxo-1,1,1,8,8,8-hexaphenyl-2,7-dioxa-1,8-distannaoct-4-ene	7552-19-4
	27	4,5-Dibromo-3,6-dioxo-1,1,1,8,8,8-hexaphenyl-2,7-dioxa-1,8-distannaoctane	56323-19-4
Trisubstituted organotin compound (Tributyltin compounds)	1	Stannane, tributyl(butylphenoxy)-	100835-88-9
	2	Tributyltin methoxide	1067-52-3
	3	Tributyltin hydroxide	1067-97-6
	4	Dibutyltin dipalmitate	13323-63-2
	5	5,5,9,9-tetrabutyl-7-((tributylstannyloxy)-6,8-dioxa-7-phospha-5,9-distannatridecane 7-oxide	13435-05-7
	6	Tributyltin bromide	1461-23-0
	7	Tributyltin cinnamate	27147-18-8
	8	Tributyltin fluoride polymer	27615-98-1
	9	Stannane, tributyl(phosphonoxy)-	28089-34-1
	10	Tributyl(oleoyloxy)stannane	3090-35-5
	11	Tributylphenoxy-stannane	3587-18-6
	12	Tributyltin ethoxide	36253-76-6
	13	Tributyl(pentachlorophenoxy)stannane	3644-38-0
	14	Tributyltin benzoate	4342-36-3
	15	[(terephthaloylbis(oxy)]bis(tributylstannane)	4756-53-0
	16	Tributyltin acetate	56-36-0
	17	Tributyl(formyloxy)stannane	5847-51-8
	18	Tributyl((diethylthiocarbamoyl)thio)stannane	5847-53-0
	19	Bis(triisobutyltin) oxide	6208-26-0
	20	Tributyl((dimethylthiocarbamoyl)thio)stannane	67057-32-3
	21	Tri-n-butyltin trifluoromethanesulfonate	68725-14-4
	22	Tri-n-butyltin hydride	688-73-3
	23	Fluoro(triisobutyl)stannane	7304-48-5
	24	Triisobutyltin chloride	7342-38-3
	25	Tributyltin iodide	7342-47-4
	26	Tributyl(D-gluconoyloxy)stannane	75113-35-8
	27	Tributyltin naphthenate; Stannane, tributyl-, mono(naphthenoyloxy) derivs.	85409-17-2
	28	Bis(tributyltin) oxide (TBTO)	56-35-9

	29	Tributan-1-yl(ethoxy)stannane	682-00-8
	30	Tributyltin chloride	1461-22-9
	31	Stannane, tributylfluoro-	1983-10-4
	32	Tributyltin methacrylate	2155-70-6
	33	Tributyl(lauroyloxy)stannane	3090-36-6
	34	Bis(tributyltin)phthalate	4782-29-0
	35	Bis(tributylstanny)l Fumarate	6454-35-9
	36	Tributyltin sulfamate	6517-25-5
	37	Bis(tributyltin) maleate	14275-57-1
	38	Bis(tributan-1-ylstanny)l but-2-enedioate	24291-45-0
	39	[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	26239-64-5
	40	rel-(2R,3S)-Bis(tributan-1-ylstanny)l 2,3-dibromosuccinate	31732-71-5
	41	Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-(tributylstanny)-	50851-45-1
	42	Bis(tributan-1-ylstanny)l 2,3-dibromosuccinate	56323-17-2
	43	Copolymer of alkyl(c=8) acrylate,methyl methacrylate and tributyltin methacrylate	67772-01-4
Mercury and its compounds	1	Chloro(o-hydroxyphenyl)mercury	90-03-9
	2	Dimercury(I) oxalate	2949-11-3
	3	Sodium 4-chloromercuribenzoate	3198-04-7
	4	Phenylmercury hydroxide--phenylmercury nitrate	8003-05-2
	5	Phenylmercury chloride	100-56-1
	6	Phenylmercuric hydroxide	100-57-2
	7	Dihydrogen [orthoborato(3-)-O]phenylmercurate(2-)	102-98-7
	8	Mercury, (9-octadecenoato-O)phenyl-, (Z)-	104-60-9
	9	Diisopropylmercury	1071-39-2
	10	Bromoethylmercury	107-26-6
	11	Ethylmercuric chloride	107-27-7
	12	(Acetato-O)methylmercury	108-07-6
	13	(Acetato-O)ethylmercury	109-62-6
	14	Methylmercury chloride	115-09-3
	15	Methylmercury hydroxide	1184-57-2
	16	Mercury oleate	1191-80-6
	17	Bromophenylmercury	1192-89-8
	18	Chloromercury ferrocene	1273-75-2
	19	Mercury, (2',7'-dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxy-, disodium salt	129-16-8
	20	Mercury bis(trifluoroacetate)	13257-51-7
	21	Bis(trimethylsilyl)methylmercury	13294-23-0
	22	Mercurate(1-), (4-carboxylatophenyl)hydroxy-, sodium	138-85-2
	23	4-(Chloromercury)benzenesulfonic acid monosodium salt	14110-97-5
	24	Iodo(iodomethyl)mercury	141-51-5
	25	Iodomethylmercury	143-36-2
	26	Phenyl(quinolin-8-olato-N1,O8)mercury	14354-56-4
	27	2-(Ethylmercuriothio)benzoic acid	148-61-8
	28	Mercuric acetate	1600-27-7
	29	Ethylmercuric phosphate	2235-25-8
	30	(4-Methyl-N-phenylbenzenesulfonamidato-N)phenylmercury	2440-34-8
	31	Chloro(propan-1-yl)mercury	2440-40-6
	32	Ethylidomercury	2440-42-8
	33	Bis(ethylmercury) hydrogen phosphate	2440-45-1
	34	Mercury, chloro(2-hydroxy-5-nitrophenyl)-	24579-90-6
	35	Chloro(2-hydroxy-3,5-dinitrophenyl)mercury	24579-91-7
	36	Methylmercury nitrile	2597-97-9
	37	Ethyl(ureato-kappaN)mercury	26535-94-4
	38	Mercury(1+) trifluoroacetate	2923-15-1
	39	Chloro[p-(2-hydroxy-1-naphthyl)azo]phenylmercury	3076-91-3
	40	(Metaborato-O)phenylmercury	31224-71-2
	41	Mercury, phenyl(trichloromethyl)-	3294-57-3
	42	(Bromodichloromethyl)phenylmercury	3294-58-4
	43	Phenyl(tribromomethyl)mercury	3294-60-8
	44	Mercury, [2,5-dichloro-3,6-dihydroxy-2,5-cyclohexadiene-1,4-dionato(2-)-O1,O6]-	33770-60-4
	45	Fluorescein mercuric acetate	3570-80-7
	46	Methylmercury benzoate	3626-13-9
	47	Bis(trifluoromethyl)mercury	371-76-6
	48	Dimethyl[.mu.-[sulphato(2-)-O-O']]dimercury	3810-81-9
	49	Mersalyl acid	486-67-9
	50	Methyl mercury dicyandiamide	502-39-6
	51	Bromomethylmercury	506-83-2
	52	Diheptan-1-ylmercury	51622-02-7
	53	N-(Ethylmercuric)-p-toluenesulphonanilide	517-16-8
	54	Mercury, bis(4-methylphenyl)-	537-64-4
	55	[N-(2-Methylphenyl)benzenesulfoneamidato-N]phenylmercury	54129-03-2
	56	Butan-1-yl(chloro)mercury	543-63-5
	57	Thimerosal; Sodium ethyl[2-mercaptopbenzoato(2-)-O]mercurate	54-64-8
	58	Phenylmercuric nitrate	55-68-5
	59	(2',7'-Dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxymercury	55728-51-3
	60	Mercury, phenyl(phenyldiazene-carbothioic acid 2-phenylhydrazidato)-	56724-82-4
	61	Mercuric benzoate	583-15-3
	62	Diphenylmercury	587-85-9
	63	Methyl(pentachlorophenolato)mercury	5902-76-1
	64	Dimethylmercury	593-74-8
	65	Sodium timerfonate	5964-24-9
	66	Mercury salicylate	5970-32-1
	67	Mercurate(1-), (4-carboxylatophenyl)chloro-, hydrogen	59-85-8
	68	Phenylmercury acetate	62-38-4
	69	Cyclohexanebutanoic acid, mercury(2+) salt	62638-02-2
	70	Diethylmercury	627-44-1
	71	Mercury, (acetato-O)(4-aminophenyl)-	6283-24-5

	72	Dipropyl-1-ylmercury	628-85-3
	73	Mercury, dibutyl-	629-35-6
	74	Mercurous acetate	631-60-7
	75	Mercury gluconate	63937-14-4
	76	Bis(trichloromethyl)mercury	6795-81-9
	77	Di-sec-butylmercury	691-88-3
	78	Sodium hydroxy(4-sulfonatophenyl)mercurate(1-)	73548-15-9
	79	Dibenzylmercury	780-24-5
	80	Mercury, methyl(8-quinolinolato-N1,O8)-	86-85-1
	81	Bis(2,3,4,5,6-pentafluorophenyl)mercury	973-17-1
	82	P-tolylmercury chloride	539-43-5
Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	1	2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Pentadecafluorooctanoic acid	335-67-1
	2	Silver(1+) pentadecafluorooctanoate	335-93-3
	3	Sodium pentadecafluorooctanoate	335-95-5
	4	Potassium pentadecafluorooctanoate	2395-00-8
	5	Ammoniumpentadecafluorooctanoate	3825-26-1
	6	Tetramethylammonium pentadecafluorooctanoate	32609-65-7
	7	Perfluorooctanoate (conjugate base of the free acid)	45285-51-6
	8	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) salt (3:1)	68141-02-6
	9	Fatty acids, C7-13, perfluoro	68333-92-6
	10	Fatty acids, C6-18, perfluoro, ammonium salts	72623-77-9
	11	Carboxylic acids, C7-13, perfluoro, ammonium salts	72968-38-8
	12	Fatty acids, C7-19, perfluoro	91032-01-8
	13	Perfluorooctanoic acid (Synonym: PFOA) or its salt	98065-31-7
	14	Ethanaminium, N,N,N-triethyl-,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
	15	Tetrapropylammonium pentadecafluorooctanoate	277749-00-5
	16	Trimethyl(octyl)ammonium pentadecafluorooctanoate	927835-01-6
	17	Branched perfluorooctanoic acid	90480-55-0
	18	Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-	1882109-81-0
	19	Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-	1882109-80-9
	20	Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1)	13058-06-5
	21	Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)	1195164-59-0
	22	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, methyl ester	376-27-2
	23	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, ethyl ester	3108-24-5
	24	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, 1,1'-anhydride	33496-48-9
	25	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.	68412-69-1
	26	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts	93062-53-4
	27	Bis(perfluorooctyl)phosphinic acid	40143-79-1
	28	Perfluorohexylperfluorooctyl phosphinate	610800-34-5
	29	Octamyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-	335-66-0
	30	Decane, 1-bromo-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-henicosafuoro-	307-43-7
	31	Perfluorooctyl iodide	507-63-1
	32	Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafuoro-11-iodo-	307-50-6
	33	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-12-iodo-	307-60-8
	34	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-14-iodo-; Nonacosafuoro-1-iodotetradecane	307-63-1
	35	Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-hentriacosafuoro-15-iodo-	335-79-5
	36	Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosafuoro-13-iodo-	376-04-5
	37	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-henicosafuoro-10-iodo-; Henicosafuoro-10-iododecane	423-62-1
	38	Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-9-iodo-; Nonadecafluoro-9-iodononane	558-97-4
	39	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafuoro-10-iodo-2-(trifluoromethyl)-; Eicosafuoro-10-iodo-2-(trifluoromethyl)decane	677-93-0
	40	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)-; 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)dodecane	3248-61-1
	41	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-octacosafuoro-14-iodo-2-(trifluoromethyl)-; Octacosafuoro-14-iodo-2-(trifluoromethyl)tetradecane	3248-63-3
	42	Alkyl iodides, C6-18, perfluoro	90622-71-2
	43	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-	2043-53-0
	44	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-henicosafuoro-12-iodo-; C10-2 telomer B iodide	2043-54-1
	45	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-14-iodo-; 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-14-iodotetradecane	30046-31-2
	46	Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-16-iodo-	65510-55-6
	47	Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodo-; 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodoundecane	65510-56-7
	48	Alkyl iodides, C4-20, gamma-omega-perfluoro	68188-12-5
	49	Alkyl iodides, C10-12, gamma-omega-perfluoro	68390-33-0
	50	8:2 Fluorotelomer olefin	21652-58-4
	51	1-Dodecene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-henicosafuoro-	30389-25-4
	52	1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuoro-;	60699-51-6
	53	1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuoro-; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuoro-tetradecanol	39239-77-5
	54	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuoro-; C10-2 fluorotelomer alcohol; 1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuoro-	865-86-1
	55	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	678-39-7
	56	Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluoro-	27854-31-5
	57	Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12-henicosafuoro-	53826-13-4
	58	2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-hexadecafluoro-	70887-84-2
	59	2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12-eicosafuoro-	70887-94-4
	60	1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafuoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate); 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-icosafuoro-2-hydroxy-12-(trifluoromethyl)tridecyl dihydrogen phosphate	63295-27-2
	61	1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate);	63295-28-3
	62	1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-16-(trifluoromethyl)-, 1-(dihydrogen phosphate)	63295-29-4
	63	1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-, 1-(dihydrogen phosphate); 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-2-hydroxytridecyl dihydrogen phosphate	94158-70-0
	64	8:2 Fluorotelomer phosphate monoester	57678-03-2
	65	8:2 Fluorotelomer phosphate diester	678-41-1
	66	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuoro-, 1-(dihydrogen phosphate)	57678-05-4
	67	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuoro-, 1-(hydrogen phosphate); Bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuoro]decyl hydrogen phosphate	1895-26-7
	68	1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafuoro-, 1-(dihydrogen phosphate), diammonium salt; Diammonium	94200-46-1
	69	1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-, 1-(dihydrogen phosphate), diammonium salt; Diammonium	94200-47-2
	70	1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-, 1-(dihydrogen phosphate), diammonium salt; Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-2-hydroxyheptadecyl phosphate	94200-48-3
	71	1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-eicosafuoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt; Diammonium	94200-50-7
	72	1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt; Diammonium 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl phosphate	94200-51-8
	73	1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-16-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt	94200-52-9
	74	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, dihydrogen phosphate, diammonium salt	93857-44-4
	75	1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:2)	94200-45-0
	76	2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17-octacosafuoro-2-hydroxy-16-(trifluoromethyl)heptadecyl ester	16083-78-6
	77	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuoro-hexadecyl methacrylate	4980-53-4

78	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl methacrylate	6014-75-1
79	2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl ester; 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl acrylate	16083-87-7
80	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl acrylate	52956-82-8
81	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-icosafuoro-11-(trifluoromethyl)dodecyl ester; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-icosafuoro-11-(trifluoromethyl)dodecyl methacrylate	74256-14-7
82	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl ester;	74256-15-8
83	2-(Perfluorodecyl) ethyl acrylate; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafluorododecyl acrylate	17741-60-5
84	2-(Perfluorodecyl) ethyl methacrylate; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafluorododecyl methacrylate	2144-54-9
85	8:2 Fluorotelomer acrylate	27905-45-9
86	8:2 Fluorotelomer methacrylate	1996-88-9
87	2-Propenoic acid, gamma-omega-perfluoro-C8-14-alkyl esters	85631-54-5
88	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl ester	91615-22-4
89	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-octacosafuoro-17-(trifluoromethyl)octadecyl ester	94158-63-1
90	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl ester	94158-64-2
91	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafuoro-17-(trifluoromethyl)octadecyl ester	94158-65-3
92	1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl)amino]-, inner salt; (2-carboxylatoethyl)(dimethyl)3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl)amino]propylammonium	93776-12-6
93	1-Propanaminium, N-(2-carboxyethyl)-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafluoro-2-hydroxytridecyl)amino]-N,N-dimethyl-, inner salt; (2-carboxylatoethyl)3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafluoro-2-hydroxytridecyl)amino]propyl(dimethyl)ammonium	93776-13-7
94	1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl)amino]-, inner salt; (2-carboxylatoethyl)(dimethyl)3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl)amino]propylammonium	93776-15-9
95	2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-icosafuoro-12-(trifluoromethyl)-; 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-icosafuoro-12-(trifluoromethyl)tridecan-1-ol	94159-83-8
96	2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-; 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoropentadecan-2-ol	94159-79-2
97	2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafluoro-; 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-henicosafluorotridecan-2-ol	94159-80-5
98	2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)-; 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)pentadecan-2-ol	94159-82-7
99	8:2 Fluorotelomer stearate monoester	99955-83-6
100	Pentanedioic acid, 3-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]-2-oxoethyl]-3-hydroxy-, 1,5-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester	302911-86-0
101	Perfluorooctylethylchloromethyl silane	3102-79-2
102	Perfluorooctylethyltrimethylchlorosilane	74612-30-9
103	Perfluorooctylethyltriethoxysilane	101947-16-4
104	Perfluorooctylethyltrichlorosilane	78560-44-8
105	Perfluorooctylethyltrimethoxysilane	83048-65-1
106	Propanamide, 3-[(gamma-omega-perfluoro-C4-10-alkyl)thio] derivatives	68187-42-8
107	Thiols, C8-20, gamma-omega-perfluoro, telomers with acrylamide	70969-47-0
108	Carbamic acid, 12-(sulfathio)ethyl-, C-(gamma-omega-perfluoro-C6-9-alkyl) esters, monosodium salts	95370-51-7
109	1,3-Propanediol, 2,2-bis[[gamma-omega-perfluoro-C4-10-alkyl]thio]methyl derivatives, phosphates, ammonium salts	148240-85-1
110	1,3-Propanediol, 2,2-bis[[gamma-omega-perfluoro-C6-12-alkyl]thio]methyl derivatives, phosphates, ammonium salts	148240-87-3
111	1,3-Propanediol, 2,2-bis[[gamma-omega-perfluoro-C10-20-alkyl]thio]methyl derivs., phosphates, ammonium salts	148240-89-5
112	Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-[(gamma-omega-perfluoro-C8-20-alkyl)thio]propyl] ethers	183146-60-3
113	Pentanoic acid, 4,4-bis[(gamma-omega-perfluoro-C8-20-alkyl)thio] derivs., compds. with diethanolamine	71608-61-2
114	2-Pentadecanol, 1,1'-[oxybis(1-methyl-2-ethanedioxy)]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-; 1,1'-[oxybis(1-methyl-2-ethanedioxy)]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoropentadecan-2-ol]	93776-00-2
115	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate	115592-83-1
116	2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and gamma-omega-perfluoro-C8-14-alkyl acrylate	129783-45-5
117	2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and gamma-omega-perfluoro-C8-14-alkyl acrylate	144031-01-6
118	2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)-omega-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediol), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18-tritriacontafuorooctadecyl 2-propenoate	116984-14-6
119	Poly[2-(perfluorooctyl)ethyl acrylate]	74049-04-4
120	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate	65104-45-2
121	2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester, polymer with 2-propenoic acid	53515-73-4
122	Amides, C7-19, alpha-omega-perfluoro-N,N-bis(hydroxyethyl)	90622-99-4
123	Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)-, inner salt; 1-(Carboxylatomethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)piperazinium; Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)-, hydroxide, inner salt	71356-38-2
124	2-Propenoic acid, perfluoro-C8-16-alkyl esters	85681-64-7
125	2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethylmethacrylate, Me methacrylate and perfluoro-C8-14-alkyl acrylate	125328-29-2
126	Phosphine, tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]-	325459-92-5
127	Palladium, dichlorobis[tris(4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl)]phosphine-kappa P]-	326475-46-1
128	1-Propanaminium, N-(2-carboxyethyl)-N,N-bis(2-hydroxyethyl)-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, inner salt	39186-68-0
129	Octanamide, N-[3-bis(2-hydroxyethyl)amino]propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-	41358-63-8
130	Benzenesulfonyl chloride, 3,4-bis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-	24216-05-5
131	1-Propanaminium, N,N,N-trimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, chloride (1:1)	53517-98-9
132	Octanamide, N-(3-aminopropyl)-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-	85938-56-3
133	1-Propanesulfonic acid, 3-[ethyl(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, sodium salt (1:1)	89685-61-0
134	Nonene, heptadecafluoro-1-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]-	84029-60-7
135	Perfluorooctane sulfonic acid and its derivatives (PFOS) C8F17SO2X (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers)	4151-50-2

19	Acetato-Oethylmercury	109-62-6							
20	Bromophenylmercury	1192-89-8							
21	Mercury, (2',7'-dibromo-3,6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthin-1'-yl]dihydroxy-, disodium salt	129-16-8							
22	Mercury bis(trifluoroacetate)	13257-51-7							
23	Bis(trimethylsilyl)mercury	13294-23-0							
24	Iodoiodomethylmercury	141-51-5							
25	Iodomethylmercury	143-36-2							
26	Phenylquinolin-8-chloro-N1,O8mercury	14354-56-4							
27	Ethylmercuric chloride	107-27-7							
28	Mercury, compound with titanium (1:3)	11083-41-3							
29	Methylmercury chloride	115-09-3							
30	Methylmercury hydroxide	1184-57-2							
31	Mercury oleate	1191-80-6							
32	Mercury, compound with sodium (2:1)	12055-37-7							
33	Mercury telluride	12068-90-5							
34	Mercury nitride	12136-15-1							
35	Lactophenylmercury	125-64-5							
36	Mercury silver iodide	12344-40-0							
37	2-Methoxyethylmercury chloride	123-88-6							
38	2-Ethoxyethylmercury chloride	124-01-6							
39	2-Ethoxyethylmercury acetate	124-08-3							
40	Carbonic acid, mercury(2+) salt (1:1)	13004-83-6							
41	Dimercy amidate nitrate	1310-88-9							
42	Hexanoic acid, 2-ethyl-, mercury(2+) salt	13170-76-8							
43	Chlorohydroxyphenylmercury	1320-80-5							
44	Phenylmercury 2-ethylhexanoate ¹⁴	13302-00-6							
45	Dimercy dicyanide oxide	1325-31-5							
46	Naphthenic acids, mercury salts	1336-96-5							
47	Phenylmercury octanoate ¹⁵	13864-38-5							
48	Mercury(II) sulfide	1344-48-5							
49	Mercury dipotassium tetrathiocyanate	14099-12-8							
50	Dimercy dioxide	15385-57-6							
51	Mercuric acetate	1600-27-7							
52	Mercuric oxide	21908-53-2							
53	[2,2',2''-Narioltri(ethanol)-N,O,O']phenylmercury lactate	23319-66-6							
54	(4-Methyl-N-phenylbenzenesulfonamido)-N-phenylmercury	2440-34-8							
55	Ethylidomercy	2440-42-8							
56	Bis(ethylmercury) hydrogen phosphate	2440-45-1							
57	Mercury, chloro(2-hydroxy-5-nitrophenyl)-	24579-90-6							
58	(neodocanoato-O)phenylmercury ¹⁷	26545-49-3							
59	Dimercy(II) oxalate	2949-11-3							
60	Mercury(II) oxalate	3444-13-1							
61	(2-Carboxy-m-tolyl)hydroxymercury, monosodium salt	52795-88-7							
62	Mercury(2+), bis(2,4,6-tri-2-pyridinyl-1,3,5-triazine-N1,N2,N6)-, (OC-6-1'2)-	53010-52-9							
63	Mercury, bromo[1-(methoxyphenylmethyl)-2-oxo-2-[(1,1,7,7-tetramethylcyclo[2.2.1]hept-2-yl)oxy]ethyl]-	5326-00-1							
64	Tetrakis(acetato-O)[mu-4-(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',4',5',7'-tetra)phenyl]mercury	54295-90-8							
65	Phenylmercuric nitrate	55-68-5							
66	[Benzato(2-)-C(2,O)]mercury	5723-59-8							
67	Mercury, compound with sodium (4:1)	57363-77-6							
68	2-Hydroxy-5-(1,1,3,3-tetramethylbutyl)phenylmercury acetate	584-18-9							
69	Diuacetylmercury	584-43-0							
70	Chloro-2-dithiylmercury	5857-39-6							
71	Diphenylmercury	587-85-9							
72	Mercury succinate	589-65-1							
73	Mercury dicyanide	592-04-1							
74	Mercury acetate	592-63-2							
75	Mercury dithiocyanate	592-85-8							
76	Mercury, (acetato-O)[3-(chloromethoxy)propyl-C,O]-	5954-14-3							
77	Chloro-m-tolylmercury	5955-19-1							
78	Mercury salicylate	5970-32-1							
79	Di-o-tolylmercury	616-99-9							
80	[1(2-hydroxyethylamino)phenylmercury acetate	61792-06-1							
81	Mercury, chloro(4-hydroxyphenyl)-	625-07-4							
82	Phenylmercury acetate ¹⁸	62-38-4							
83	[mu-(orthoborato(2-)-O,O')]diphenylmercury	6273-99-0							
84	Diethylmercury	627-44-1							
85	Mercury difulminate	628-86-4							
86	Mercurous acetate	631-60-7							
87	Mercury, (acetato-kappa O)(2-hydroxy-5-nitrophenyl)-	63468-53-1							
88	Mercury gluconate	63937-14-4							
89	Mercury dichloride	7487-94-7							
90	Mercury	7439-97-6							
91	Mercury disulfide	7774-29-0							
92	Nitric acid, mercury(1+) salt monohydrate	7782-86-7							
93	Mercury sulphate	7783-35-9							
94	Dimercy sulphate	7783-36-0							
95	Mercury difluoride	7783-39-3							
96	Mercury disilver tetraiodide	7784-03-4							
97	Mercury dichromate	7789-10-8							
98	Mercury dibromide	7789-47-1							
99	Phenylmercury hydroxide-phenylmercury nitrate	8003-05-2							
100	Chloro(o-hydroxyphenyl)mercury	90-03-9							
101	Other mercury compounds	-							
Hexavalent chromium compound ¹⁹									
1	Chromium copper oxide (Cr0.2Cu0.9O1.2)	109225-23-2							
2	Chromium zinc oxide (Cr2Zn0.5O0.5-1.9)	109657-68-3							
3	Chromium zinc oxide (Cr0.5Zn0.5O0.8)	109657-69-4							
4	Chromium copper oxide	11104-65-7							
5	dihydroxy-dioxo-chromium	11115-74-5							
6	Chromium copper oxide (Cr0-2Cu0-1O1-3)	112285-78-6							
7	Chromium zinc oxide (Cr1.9Zn1.14O4)	113015-82-0							
8	Chromium copper oxide (Cr2.85Cu2.93O7)	115517-69-6							
9	Chromium copper oxide (Cr2.85Cu2.207)	115517-70-9							
10	Chromium copper oxide (Cr0.77Cu2.41O5)	115517-71-0							
11	Chromium zinc oxide (Cr0.47Zn0.29O)	115658-56-5							
12	Chromium zinc oxide (Cr0.44Zn0.34O)	115658-57-6							
13	Chromium lanthanum oxide (Cr1.7La0.3O3)	115949-83-2							
14	Chromium lanthanum oxide (Cr1.7La0.3O3)	115949-89-8							
15	Chromium zinc oxide (Cr0.01Zn0.97O1.02)	116305-12-5							
16	Chromium sodium oxide (Cr2NaO8)	12053-47-3							
17	Chromium sodium oxide (Cr3Na0.8O8)	120558-28-3							
18	Chromium zinc oxide (Cr2ZnO5)	12190-88-4							
19	Chromium lanthanum oxide (CrLaO4)	12433-24-8							
20	(Dioxochromium)di-mu-oxodioxouranium (CrUO6)	12433-30-6							
21	potassium; dioxido-dioxo-chromium	12433-30-0							
22	Chromium copper oxide ((Cr,Cu)3O4)	125233-42-3							
23	Chromium lanthanum oxide (CrLa0.99O3)	125297-07-6							
24	Chromium sodium oxide	12680-48-7							
25	Chromium lanthanum oxide	12777-94-5							
26	Chromium lanthanum oxide ((Cr,Li)2O3)	128715-37-7							
27	Chromium lanthanum oxide (Cr0.99La1.01O3)	131162-93-1							
28	Chromium sodium oxide (CrNa0.85-1O2)	136141-00-9							
29	Chromium (VI) chloride	14986-48-2							
30	Chromium (VI)	18540-29-9							
31	Dibismuth dichromium nonaoxide	37235-82-8							
32	Cesium chromium oxide	37367-87-6							
33	Chromium zinc oxide	50922-29-7							
34	Ammonium chromium oxide	52110-72-2							

Table with columns for chemical names, CAS numbers, ECHA IDs, and hazard information. Rows include various organic and inorganic compounds such as ethylenediamine, terphenyl, and various sulfonates.

*1: Please refer to the link below for the latest information on target substances listed in the EU REACH Annex XVII (Restrictions).

<https://echa.europa.eu/substances-restricted-under-reach>

*2: Please refer to the link below for the latest information on target substances listed in the EU REACH Regulation SVHC.

<https://www.echa.europa.eu/candidate-list-table>

*3: Given that its application is to paint that is subject to EU REACH Annex XVII (Restrictions), the regulation value shall be prohibited from its intentional use.

*4: Given that its application is to products that young children could put into their mouth and that are subject to EU REACH Annex XVII (Restrictions), the regulation value shall be less than 500 ppm.

*5: Given that its application is to products or parts that are subject to EU REACH Annex XVII (Restrictions), the regulation value shall be less than 100 ppm.

*6: Given that its application is to leather products that have contact with the skin and that are subject to EU REACH Annex XVII (Restrictions), the regulation value shall be less than 3 ppm.

*7: Given that its application is to textile products that have contact with the skin and that are subject to EU REACH Annex XVII (Restrictions), the regulation value shall be prohibited from its intentional use.

*8: It is still a target substance as it is listed in the (Part A of Annex I under) POPs Regulation while it has been removed from Annex XVII of the REACH regulation, regulation value shall be prohibited from its intentional use.

Appendix 3. Lists of Building Materials Requiring Conformance Certification on Countermeasures for Indoor Air Pollution

1. Formaldehyde

		Type of building materials *1
1. Building materials subject to notification by the Ministry of Land, Infrastructure, Transport and Tourism	A	Plywood
	B	Wood flooring
	C	Structural panel
	D	Laminated wood
	E	Laminated veneer lumber
	F	MDF
	G	Particle board
	H	Sawn wood boards, veneer sheets, small pieces, or equivalent are joined together on their surfaces using adhesive containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent and processed into sheets
	I	Urea resin board
	J	Wallpaper
	K	Adhesives as follows: (1) Starch-based adhesive for installing wallpaper (2) Starch-based adhesive containing formaldehyde solution for fittings (3) Adhesive containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent
	L	Heat reserving materials as follows: (1) Rock wool heat reserving material, rock wool felt, rock wool heat reserving belt, and rock wool heat reserving pipe cover (2) Glass wool heat reserving material, glass wool corrugated heat reserving board, glass wool heat reserving belt, and glass wool heat reserving pipe cover (3) Heat reserving material containing phenol resin
	M	Buffer materials as follows: (1) Rock wool buffer material for floating floor (2) Glass wool buffer material for floating floor
N	Heat insulating materials as follows: (1) Rock wool insulating material (2) Glass wool insulating material (3) Glass wool insulating material for blowing (4) Heat insulating material containing urea resin or melamine resin	
2. Building materials subject to notification by the Ministry of Land, Infrastructure, Transport and Tourism only when coated during installation work	A	Paints as follows (only those containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent): (1) Aluminum paint (2) Oil-based paint (3) Synthetic resin-based paint (4) Phthalic acid resin varnish (5) Phthalic acid resin enamel (6) Oil-based base paint (7) General-use rust resisting paint (8) Multicolor design paint (9) Housing indoor wood floor paint (10) Housing wood/metal paint (11) Building floor paint
	B	Finishing coatings as follows (only those containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent): (1) Interior synthetic resin emulsion coating for thin textured finishes (2) Interior synthetic resin emulsion coating for thick textured finishes (3) Lightweight aggregate finishing coating (4) Synthetic resin emulsion multi-layer finishing coating (5) Waterproof synthetic resin emulsion multi-layer finishing coating
	C	Adhesives as follows (only those containing urea resin, melamine resin, phenol resin, resorcinol resin, or formaldehyde-based antiseptic agent): (1) Vinyl acetate resin solvent-based adhesive (2) Rubber solvent-based adhesive (3) Vinyl copolymer resin solvent-based adhesive (4) Regenerated rubber solvent-based adhesive

*1: Building materials stipulated in the Ministry of Land, Infrastructure, Transport and Tourism 2002 Notification No. 1113, "Specification of Type 1 Formaldehyde-Emitting Building Materials"

2. Examples of building materials not subject to notification by the Ministry of Land, Infrastructure, Transport and Tourism (Reference)

Type of building materials *2	
A	Metals as follows: (1) Aluminum board (2) Copper board (3) Stainless steel board (4) Enameled iron board
B	Concrete materials as follows: (1) Concrete (2) Mortar (3) Concrete block
C	Ceramic building materials as follows: (1) Glass (2) Tile (3) Brick
D	Natural stones as follows: (1) Stone materials (2) Marble
E	Inorganic plastered wall as follows (hydration hardening type and self-adhesive type): (1) Mortar (2) Plaster
F	Woods as follows: (1) Solid wood (2) Those that are not formed into a rod shape by equally vertical joint
G	Boards as follows: (1) Wood cement board (2) Pulp cement board (3) Plaster board (4) Calcium silicate board (5) Rock wool acoustical board (6) Insulation board (7) Hard board (8) Volcanic vitreous double-glazed board (9) Bamboo flooring
H	Decorative sheets as follows: (1) Printing paper (2) Olefin sheet (3) Wood veneer (4) PVC sheet (5) High-pressure melamine resin board
I	Coating materials that are not subject to notification as follows: (1) Shellac varnish, etc. (2) Nitrocellulose lacquer (3) Lacquer-based sealer (4) Lacquer-based base paint (5) Vinyl chloride resin varnish (6) Vinyl chloride resin enamel (7) Vinyl chloride resin primer (8) Acrylic resin varnish (9) Acrylic resin enamel (10) Acrylic resin primer (11) Synthetic resin emulsion paint and sealer (12) Synthetic resin emulsion pattern paint (13) Synthetic resin emulsion putty (14) Household indoor wall paint (15) Building polyurethane resin paint (16) Glossy synthetic resin emulsion paint (17) Acrylic resin-based nonaqueous resin paint (18) Oil stain (19) Pigment stain
J	Adhesives that are not subject to notification as follows: (1) Vinyl acetate resin-based emulsion adhesive (2) Vinyl copolymer resin-based emulsion adhesive (3) Rubber latex-based adhesive (4) Epoxy modified synthetic rubber latex-based adhesive (5) Aqueous polymer-isocyanate-based adhesive (6) α -olefin-resin-based adhesive (7) Epoxy resin-based adhesive (8) Urethane resin-based adhesive (9) Modified silicone resin-based adhesive (10) Silylated urethane resin-based adhesive (11) Hot-melt adhesive
K	Finishing coatings that are not subject to notification as follows:

3. Building materials not subject to notification by the Ministry of Land, Infrastructure, Transport and Tourism

(1) Interior cement-based coating for thin textured finishes
(2) Interior slaked lime-based or dolomite plaster-based coating for thin textured finishes
(3) Interior silicate-based coating for thin textured finishes, interior water-soluble resin-based coating for thin textured finishes
(4) Interior cement-based coating for thick textured finishes
(5) Interior slaked lime-based or dolomite plaster-based coating for thick textured finishes
(6) Interior gypsum-based coating for thick textured finishes
(7) Interior silicate-based coating for thick textured finishes
(8) Polymer cement-based multi-layer finishing coating
(9) Flexible polymer cement-based multi-layer finishing coating
(10) Waterproof polymer cement-based multi-layer finishing coating
(11) Silicate-based multi-layer finishing coating
(12) Reaction curing synthetic resin emulsion multi-layer finishing coating
(13) Waterproof reaction curing synthetic resin emulsion multi-layer finishing coating
(14) Synthetic resin solution-based multi-layer finishing coating
(15) Waterproof synthetic resin solution-based multi-layer finishing coating

*2: Examples of building materials that are not subject to notification or regulation and their handling (Construction Guidance Division, Ministry of Land, Infrastructure and Transport on September 18, 2003)

3.4 VOC

The applicable building materials (hereafter target materials) shall be those used in living spaces as shown below.

- ① Building boards, wallpaper, and floor materials specified in JIS A1902-1
- ② Adhesives specified in JIS A1902-2
- ③ Paints and building finishing coatings specified in JIS A1902-3
- ④ Heat insulating materials specified in JIS A1902-4
- ⑤ Other materials using the target VOC that can be logically evaluated based on the applicable standards
- ⑥ Materials whose target VOC shown in the appended table is confirmed to be below the standard values

Appended table. Materials whose target VOC is confirmed to be below the standard values *3

Material	Requirement	Remark
Household rock wool heat insulating material	JIS A 9521	According to the investigation by Rock Wool Association Japan (VOC emission rate from Xylene is also confirmed to be below the standard value.)
Rockwool heat reserving/insulating material	JIS A 9504	
Rock wool (for blowing)	JIS A 9504	
Rock wool heat insulating material for blowing	JIS A 9523	
Rock wool decorative acoustic board (ceiling)	JIS A 6301	
Wood (lumber, sliced veneer of natural wood)	-	Reference: Review of "the report by a study group for VOC certification/labeling from wood building materials" (issued by Japan Housing and Wood Technology Center in March 2020.) https://www.howtec.or.jp/files/libs/3181/202003261029093893.pdf
Three-tier panel/modified material	Products using urea resin adhesive, melamine/urea co-condensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or containing adhesives created by co-condensing or combining these. However, three-tier panels and modified materials using aqueous polymer/isocyanate adhesive shall be domestically produced.	
Plywood	Products using urea resin adhesive, melamine/urea co-condensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or containing adhesives created by co-condensing or combining these. However, plywood using aqueous polymer/isocyanate adhesive shall be domestically produced.	
Laminated veneer lumber (LVL)	Products using urea resin adhesive, melamine/urea co-condensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or containing adhesives created by co-condensing or combining these. However, laminated veneer lumber using aqueous polymer/isocyanate adhesive shall be domestically produced.	
Laminated wood	Products using urea resin adhesive, melamine/urea co-condensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or containing adhesives created by co-condensing or combining these. However, for laminated wood using aqueous polymer/isocyanate adhesive, the adhesive shall be in compliance with 4VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association.	
Cross laminated timber (CLT)	Products using urea resin adhesive, melamine/urea co-condensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or containing adhesives created by co-condensing or combining these. However, for laminated wood using aqueous polymer/isocyanate adhesive, the adhesive shall be in compliance with 4VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association.	
Particle board	Products using urea resin adhesive, melamine/urea co-condensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or containing adhesives created by co-condensing or combining these. However, for a particle board using isocyanate-based adhesive, the adhesive shall be in compliance with 4VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association.	
MDF	Products using urea resin adhesive, melamine/urea co-condensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or containing adhesives created by co-condensing or combining these. However, for MDF using isocyanate-based adhesive, the adhesive shall be in compliance with 4VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association.	
Insulation board	-	
Hard board	-	
Wood fiber insulation mat	-	
Flooring	Products using urea resin adhesive, melamine/urea co-condensation resin adhesive, melamine resin adhesive, phenol resin adhesive, and resorcinol resin adhesive, or containing adhesives created by co-condensing or combining these. However, for flooring using aqueous polymer/isocyanate adhesive, the adhesive shall be in compliance with 4VOC standards or their release rate shall be below the standard values set by Japan Adhesive Industry Association. Any kind of products shall not be processed by coating, etc.	

*3 Source: "Self-imposed labeling system for VOC emission from a decorative board, etc." and "Guidelines for VOC labeling on household components" on the website of Japan Construction Material & Housing Equipment Industries Federation