

Panasonic Group

Chemical Substances Management Rank Guidelines

Version 5.1 (For Products)

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**Corporate Environmental Affairs Division
Panasonic Corporation**

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1. Objective of These Guidelines

The purpose of the "Chemical Substances Management Rank Guidelines (For Products)" is to improve environmental quality of the products produced and sold by the Panasonic Group companies by clarifying the chemical substances (environmentally impacting substances) that are prohibited or that require special management if contained in the components, devices, materials, etc. used and by advising the group's internal operations, and external suppliers of components, devices, and materials of this resolution.

2. Application

(1) Application to products

- 1) Products designed, manufactured, and sold by the Panasonic Group
- 2) Products outsourced to a third party by the Panasonic Group for design and manufacturing, and sold by the Panasonic Group with its trademark. This includes products purchased by the Panasonic Group from another company and sold as finished products.
- 3) Products contracted from a third party for design and manufacturing (excluding the components and materials specified by the third party)
- 4) Products used for sales promotion (giveaways, etc. provided to general consumers)
- 5) Packaging materials including those used for product and for transportation.

(2) Application to components and materials

This rule applies to the components, materials, and other items used for the products mentioned in Section 2. (1) "Application to products" above.

- Components/materials (include electrical components, mechanical components, electro-mechanical components, semiconductors, printed circuit boards, enclosure components, packaging materials/components)
- Assembled components such as functional unit/module/board assemblies
- Accessories (for using products such as remote controls, AC adaptors, etc.)
- Auxiliary materials, etc. (tape, solder material, adhesive, etc.)
- Operating instructions, warranty certificates, other printed matters enclosed in products
- Repair or service parts
- Packaging materials used for transport/protection by component suppliers (the packaging materials with no possibility of transfer or contamination of the subject substance to the components even after direct contact such as returnable packages to be collected and reused by the supplier are not subject to these guidelines.)

3. Operations and Exemptions

- (1) Although these guidelines have been developed in accordance with the principal laws and regulations, they do not necessarily refer to all relevant regulations. All products shall fully comply with the treaties, laws, ordinances, industry guidelines, and other requirements effective at the time of product introduction in addition to these guidelines.
- (2) Although these guidelines shall be applied to all suppliers as a rule, the use of a customer's standards is also tolerated as an exception, in the case no agreement is obtained with these guidelines and the business unit decides to handle them as an exception.
- (3) The following case is exempted from application of the Management rank.
 - Chemical substances used for research and development (but applicable when commercialized)

4. Establishment, Revision, and Abolition

- (1) All items related to these guidelines are examined by the Rank Guidelines Working Group consisting of experts from domain companies, affiliated companies, and relevant departments, approved by the Product Chemical Substance Management Subcommittee and Technology Subcommittee, and authorized by the Director of Corporate Environmental Affairs Division.
- (2) In case a requirement arises for revision or abolishment of these guidelines, a request shall be submitted to the Product Chemical Substance Management Subcommittee and Technology Subcommittee or the secretariat of the Corporate Environmental Affairs Division.
- (3) These guidelines shall be discussed and reviewed periodically (once a year) by the Rank Guidelines Working Group. In the following cases, however, the secretariat will review and obtain approval from the Product Chemical Substance Management Subcommittee and Technology Subcommittee for revisions.
 - When the need arises for reflecting a change in social trends such as law amendments
 - When the need arises for reflecting a progress in technological trends (alternative technologies, assessment technologies), improvement of threat-related data, exposure data, and risk assessment data, etc.

5. Definition of Terms

The terms used in these guidelines are based on the following definitions.

- (1) Panasonic Group "Chemical Substances Management Rank Guidelines (For Products)"

These guidelines rank as Prohibited substances the substances currently prohibited for contamination in products, those to be prohibited in the near future, and those to be voluntarily restricted for use in the Panasonic Group. These guidelines also rank Managed substances as those that affect environmental preservation from the viewpoint of human health, safety and hygiene, and adequate treatment, thereby requiring to clarify actual usage data. These guidelines only apply to the substances actually contaminated in products.

- (2) Level 1 Prohibited Substances

The substances listed below and those that may currently be used in the Panasonic Group products are in this rank. Any use of such substances must be halted immediately.

- A substance contaminated in products that is prohibited by existing laws and regulations; or a substance where an upper limit of concentration is specified.
- A substance that will be prohibited in product contamination by laws and regulations or where an upper limit of concentration will be specified within one year of the revision of these guidelines.
- A substance that has been notified as prohibited in product contamination in Environmental Notices issued by the Panasonic Group.

Because this substance must not be contaminated in products, intentional use is prohibited; and if a regulated value exists, the concentration, including impurities, must be guaranteed to be below the regulated value (Intentional use is not permitted even if the contained quantity is less than the regulated value.).

- (3) Level 2 Prohibited Substances

Any of the substances shown below falls into this rank.

- Substances other than those specified as the Level 1 Prohibited Substances that will be prohibited in product contamination after a certain period by a treaty, law, or

regulation.

- Substances that are prohibited in product contamination by the Panasonic Group prior to the effective period specified by a treaty, law, or regulation.
- Substances whose use is voluntarily restricted by the Panasonic Group. Any confirmed contamination of such substances must be remedied by means of an alternative based on the period or restricted condition specified by these guidelines.

(4) Managed Substances

This rank refers to substances whose consumption needs to be monitored and for which consideration needs to be given to human health, safety and hygiene, adequate treatment, etc. The intentional use of these substances is not restricted, but their use and contained concentration must be monitored. Any of these substances whose use exceeds 1000 ppm in contained concentration or intentionally used substances must be monitored.

(5) Contained in Products

Refers to all cases of where the substances are contained in components and materials used in a product or packaging material. For example, the following conditions are included.

- Condition in which the subject substance is intentionally used
- Condition in which the subject substance is contained as an impurity
- Condition in which the subject substance is used in the manufacturing process and remains on or attached to the finished product or its components or materials (for example, if a product risks being contaminated by a mold, tool, or machine that directly contacts the product during the manufacturing process, contamination of such section needs to be regarded as prohibited).

(6) Intentional Use

Intentionally containing a certain substance during the process of manufacturing a product or component when continuous containment is desirable for obtaining certain characteristics, appearance, or quality.

(7) Impurity

A substance contained in natural materials but which cannot be fully eliminated during the refining process, or which is generated in a reaction process but cannot be eliminated technically.

(8) Regulated Value

Concentration of Prohibited substances not intentionally used but present as an impurity, and whose concentration shall be guaranteed in the components and materials delivered to the Panasonic Group and in the products shipped by the Panasonic Group.

(9) Controlled Value

Concentration of the Level 1 Prohibited Substances specified as never exceeded if there is no intentional use or contamination. If the contained concentration of the Prohibited substance as an impurity exceeds the controlled value, the supplier needs to be requested to carry out reanalysis, clarification of the reason for contamination, and reduction of the contained concentration to below the controlled value. The value is used for monitoring within the Panasonic Group (Controlled value is not intended for requesting the Non-use Warranty from the supplier).

(10) Contained Concentration

The contained concentration refers to the concentration expressed by the mass of homogeneous material placed in the denominator position. The homogeneous material refers to the material that cannot be disassembled mechanically into different materials. Examples of homogeneous materials are as follows.

- Chemical compound, polymer alloy, metal alloy, etc.
- Concerning raw materials, such as paints, adhesives, inks, pastes, resin polymers, glass powder, ceramic powder, etc., the final form of each presumed application (e.g., the dried or cured state for paints and adhesives, the molded state for resin polymers, and the formed or molded form for glass or ceramic materials)
- Single layer of painted, printed, or plated surface. In the case of multiple layers, the condition of each single layer.

(11) M-No.

Control number assigned by the Panasonic Group for substances requiring monitoring but which have not been given a CAS Number.

(12) Japan Green Procurement Survey Standardization Initiative (JGPSSI)

An institute organized for standardizing a survey method of chemical substances and materials for improving the efficiency of Green procurement.

6. Specified Managed Substances

(1) Level 1 Prohibited Substances

Level 1 Prohibited Substances have been determined in accordance with the following representative Japanese and foreign laws (Table 1). In the components, materials, and the products shipped by the Panasonic Group, these substances must not be used intentionally, and the contained concentration as an impurity must be guaranteed to be below the regulated value shown in Table 1.

If the contained concentration exceeds the controlled value* (the concentration considered not to be exceeded unless intentional use or contamination takes place) specified separately, intentional use or contamination is likely, and so the supplier is requested to reanalyze, clarify the reason for contamination, reduce the contained concentration to below the controlled value, and correct the issue.

*: "List of Controlled Values of Prohibited Substances"

<http://panasonic.net/eco/suppliers/>

The same requirement applies to recycled materials for contamination of Level 1 Prohibited Substances, and the impurity must be guaranteed to be less than the regulated value and limited to below the controlled value.

1) Laws in Japan

- Type 1 Specified Chemical Substances (Substances prohibited for manufacturing and importing) determined by the "Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances" (hereafter Chem-sub Law)
- Manufacturing-prohibited Hazardous Substances as determined by the "Law on Industrial Safety and Hygiene" Article 55 (Ind-safety Law)
- Specified Substances (excluding HCFC) as determined by the "Law Concerning the Protection of the Ozone Layer through Control of Specified Substances and Others Measures" (Ozone Layer Law)
- Requirement for indicating the included specified chemical substances as determined by the "Law for Promotion of Effective Utilization of Resources"

2) Laws in Foreign Countries

- Restriction of using the specified hazardous substances included in electrical and electronic equipment (hereafter called the RoHS Directive)
- "EU Hazardous Substances Regulations" – Includes the laws and ordinances enforced in the EU member states
- "EU Parliament and Commission Directive on Packaging and Packaging Waste"
- Germany: "ChemG" – Prohibiting the sale of the specified chemicals, mixture and products that contain these substances or their possible release for the specified uses and conditions.
- Germany: "Consumer Goods Ordinance"
- Denmark: "Formalin Act"
- State of California: "Proposition 65"

Table 1 Substance Group List of Level 1 Prohibited Substances

It is required to guarantee that the substances are not intentionally used and the contained concentration as impurity is less than the regulated value.

Caution 1: The controlled value is determined separately from the regulated value for the purpose of control by the Panasonic Group. Refer to the "List of Controlled Values of Prohibited Substances" (URL below)

Caution 2: Some domain companies and affiliated companies of the Panasonic Group may set a value lower than a regulated value or controlled value according to the domain/affiliated companies' circumstances, such as on the request of a customer.

Caution 3: For the analysis method of the major substances, refer to the "Analysis Method of Level 1 Prohibited Substances" (URL below)

<http://panasonic.net/eco/suppliers/>

Caution 4: Any substances not included in this list must also fully be compliant if designated by a treaty, law, ordinance, industry guidelines, etc.

No.	JGPSSI Substance Group No. ⁶	Substance Group Name	Regulated Value by Panasonic Group	Major Referenced Laws/Regulations	
1	B05	Polychlorinated biphenyls (PCBs)	Intentional use prohibited ⁷	Chem-sub Law, EU Hazardous Substances Reg., ChemG	
2	C01	Asbestos	Intentional use prohibited and less than 1000 ppm ⁷	EU Hazardous Substances Reg., ChemG, Ind-safety Law	
3	A17	Specified organic tin compounds	Intentional use prohibited ⁷	EU Hazardous Substances Reg., ChemG, Chem-sub Law	
4	B09	Short-chain paraffin chloride (C10-13)	Intentional use prohibited ⁷	EU Hazardous Substances Reg.	
5	B02 B03	Specified brominated flame-retardants (PBBs, PBDEs) (see Table 2-7)	Intentional use prohibited and less than 1000 ppm ⁸	RoHS Directive, EU Hazardous Substances Reg.	
7	C02	Azo dye and pigment forming specified amines ² (see Table 2-1)	Less than 30 mg/kg (30 ppm) (as specified amine)	German Consumer Goods Ordinance, ChemG, EU Hazardous Substances Reg.	
8	B06	Polychloronaphthalene (number of chlorine 3 or more)	Intentional use prohibited ⁷	Chem-sub Law	
19	A05	Cadmium and its compounds ² (see Table 2-2)	Resin (incl. rubber, film), paint, ink, pigment, dye	Intentional use prohibited and less than 100 ppm (with no volatile components)	RoHS Directive, EU Hazardous Substances Reg., ChemG, Law for Promotion of Effective Utilization of Resources
			Packaging material [†]	Intentional use prohibited and less than 100 ppm	EU Packaging Directive
			Other than above	Intentional use prohibited and less than 100 ppm	RoHS Directive

Continued

20	A09	Lead and its compounds ^{*2} (see Table 2-3)	Resin (including rubber, film), paint, ink, pigment, dye	Intentional use prohibited and less than 300 ppm (with no volatile components)	Proposition 65
			Packaging material ^{*1}	Intentional use prohibited and less than 100 ppm	EU Packaging Directive
			Other than above	Intentional use prohibited and less than 1000 ppm	RoHS Directive, ChemG, EU Hazardous Substances Reg., Law for Promotion of Effective Utilization of Resources
21	A07	Hexavalent chromium compounds ^{*2} (see Table 2-4)	Packaging material ^{*1}	Intentional use prohibited and less than 100 ppm	EU Packaging Directive
			Other than above	Intentional use prohibited and less than 1000 ppm	RoHS Directive, Law for Promotion of Effective Utilization of Resources
22	A10	Mercury and its compounds ^{*2} (see Table 2-5)	Packaging material ^{*1}	Intentional use prohibited and less than 100 ppm	EU Packaging Directive
			Other than above	Intentional use prohibited and less than 1000 ppm	RoHS Directive, Law for Promotion of Effective Utilization of Resources
24	C04	Ozone-depleting substances (excluding HCFC)		Intentional use prohibited	Ozone Layer Law, Montreal Protocol
25	—	Formaldehyde ^{*2} (see Table 2-6)		Aerial concentration: Less than 0.1 ppm (ChemG) ^{*6} Aerial concentration: Less than 0.15 mg/m ³ (Formalin Act) ^{*6}	ChemG, Formalin Act (Denmark)
26	—	Perfluorooctane sulfonate and its salts ^{*2} (see Table 2-8)		Intentional use prohibited ^{*7}	EU Hazardous Substances Reg.
27	—	Specified benzotriazole 2-(2H-1,2,3-benzotriazole-2-yl)-4,6-di-tert-butylphenol (see Table 2-9)		Intentional use prohibited ^{*7}	Chem-sub Law

- *1: Requires to reduce total weight of heavy metals (lead, cadmium, mercury, and hexavalent chromium) in each homogeneous material (for example, resin, ink, paint) constructing the packaging materials to less than 100 ppm by weight.
- *2: The substances with limited use as Level 1, as listed in Table 2.
- *4: The "JGPSSI Substance Group Numbers" have been determined by JGPSSI and listed for reference purposes.
- *5: No. 6, Nos. 9 to 18, and No. 23 are vacant due to abolition.
- *6: Test methods shall comply with individual laws.
- *7: If no intentional use is verified by tracing back the supply chain, the analysis for checking non-use of the subject substance is not required. If an impurity contamination is detected, the response needs to be determined separately."
- *8: The regulated value 1000 ppm indicates the concentration of each substance of PBB and PBDE.

Table 2 Level 1 Prohibited Substances Regulated Items

Table 2-1

Substance Name: Azo dye and pigment forming specified amines	
Regulated items	
<ul style="list-style-type: none"> Items that can possibly have direct contact with human skin or oral cavities for an extended period of time Examples: Clothing, bedding, towels, hairpieces, wigs, caps, and other hygiene items, sleeping bags, footwear, gloves, wristwatch bands, earphones, headphones, straps, shoulder belts, etc. <p>No. 7 of the azo dye and pigment, the specified amines that must not be generated by reduction or decomposition are listed below.</p>	
Specified amines that must not be generated	
CAS No.	Substance name
60-09-3	4-aminoazobenzene
90-04-0	o-anisidine
91-59-8	2-naphthylamine
91-94-1	3,3-dichlorobenzidine
92-67-1	4-aminodiphenyl
92-87-5	Benzidine
95-53-4	ortho-toluidine
95-69-2	4-chloro-o-toluidine
95-80-7	2,4-toluenediamine
97-56-3	ortho-Aminoazotoluene
99-55-8	5-nitro-o-toluidine
101-14-4	4,4-methylene-bis-(2-chloroaniline)
101-77-9	4,4-diaminodiphenylmethane
101-80-4	4,4-oxydianiline
106-47-8	p-chloroaniline
119-90-4	3,3-dimethoxybenzidine
119-93-7	3,3-dimethylbenzidine
120-71-8	p-cresidine
137-17-7	2,4,5-trimethylaniline
139-65-1	4,4-thiodianiline
615-05-4	2,4-diaminoanisole
838-88-0	3,3-dimethyl-4,4-diaminodiphenylmethane

Table 2-2

Substance Name: Cadmium and its compounds	
Regulated items	
<ul style="list-style-type: none"> • Prohibited in all applications except those in the exemptions shown below. For example, <ul style="list-style-type: none"> • Stabilizer, pigment, dye, paint, ink used for plastics (including rubber, film) • Phosphor, alloy, packaging materials, etc. 	
Exemptions	<ul style="list-style-type: none"> • Items listed in the Panasonic Group Exempted Items List *1 • Uses as battery elements *2 (by EU Battery Directive)

*1: The latest version of the Panasonic Group Exempted Items List is posted on the website of Panasonic Corporation.

<http://panasonic.net/eco/suppliers/>

*2: Batteries having no design as a finished product on the jacket or circuit component

Table 2-3

Substance Name: Lead and its compounds	
Regulated items	
<ul style="list-style-type: none"> • Prohibited in all applications except those in the exemptions shown below. For example, <ul style="list-style-type: none"> • Paint, pigment, dye, ink • Stabilizer in plastic (including rubber) material • Solder coating on and packaging material of component external electrode, lead terminal, etc. 	
Exemptions	<ul style="list-style-type: none"> • Items listed in the Panasonic Group Exempted Items List *1 • Uses as battery elements *2 (by EU Battery Directive)

*1: The latest version of the Panasonic Group Exempted Items List is posted on the website of Panasonic Corporation.

<http://panasonic.net/eco/suppliers/>

*2: Batteries having no design as a finished product on the jacket or circuit component

Table 2-4

Substance Name: Hexavalent chromium compounds	
Regulated items	
<ul style="list-style-type: none"> • Prohibited in all applications except those in the exemptions shown below. For example, <ul style="list-style-type: none"> • Rust-proof treatment • Plastics, paint/pigment/ink • Packaging material, etc. 	
Exemptions	<ul style="list-style-type: none"> • Items listed in the Panasonic Group Exempted Items List *1 • Uses as battery elements *2 (by EU Battery Directive)

*1: The latest version of the Panasonic Group Exempted Items List is posted on the website of Panasonic Corporation.

<http://panasonic.net/eco/suppliers/>

*2: Batteries having no design as a finished product on the jacket or circuit component

Table 2-5

Substance Name: Mercury and its compounds	
Regulated items	
<ul style="list-style-type: none"> Prohibited in all applications except those shown in the exemptions. For example, Pigment, dye, paint, ink Indicator such as hour meter Relay, switch, sensor using mercury for electrical contact Harmonizer in plastics, packaging material, etc. 	
Exemptions	<ul style="list-style-type: none"> Items listed in the Panasonic Group Exempted Items List *1 Uses as battery elements *2 excluding mercury batteries (by EU Battery Directive)

*1: The latest version of the Panasonic Group Exempted Items List is posted on the website of Panasonic Corporation.

<http://panasonic.net/eco/suppliers/>

*2: Batteries having no design as a finished product on the jacket or circuit component

Table 2-6

Substance Name: Formaldehyde	
Regulated items	
<ul style="list-style-type: none"> Wood products and parts using materials such as particle boards and MDF (medium density fiberboard) shall satisfy the following conditions (Ex. speaker, rack). Less than the regulated values of Table 1 shall be met, not banning intentional use. However, for products destined for regions other than those regulated by law, the application of less than 0.5 mg/L (JIS: desiccator method) may also be possible. The regulated values in building products and housing equipment shall be determined by the applicable domain company or affiliated company. 	

Table 2-7

Substance Name: Specified Brominated Flame-retardant (PBB, PBDE)	
Regulated items	
<ul style="list-style-type: none"> All types of PBB and PBDE (Deca BDE (deca-bromo-diphenyl-ether) is subject to prohibition) 	

Table 2-8

Substance Name: Perfluorooctane sulfonate and its salts Molecular formula C ₈ F ₁₇ SO ₂ X (X = other derivatives including OH, metallic salts, halogen compounds, amides, or polymers)	
Regulated items	
<ul style="list-style-type: none"> Prohibited in all applications other than those shown in the Exemptions below (Prohibited in products shipped from the Panasonic Group on a global basis after June 27, 2008) Note: Use of "surface treatment less than 1 µg/m²" permitted by the EU Hazardous Substances Regulations is not acceptable, since it is regarded as intentional use. 	
Exemptions	<ul style="list-style-type: none"> Photoresist for photolithography processes or reflection-prevention coating material Photo-coating material for printing originals on film or paper Mist-prevention agent and moisturizer for non-decorative hard chromium plating used with an electric plating system controlled to minimize the emission of perfluorooctane sulfonate by using the most advanced technology available

Table 2-9

Substance name: Specified benzotriazole (2- (2H-1,2,3-benzotriazole-2-yl) -4, 6-di-tert-butylphenol)
Regulated items
<ul style="list-style-type: none">• Prohibited in all applications For example,• UV absorption agent for plastic resin• Plastic building materials• Sublimation transfer type photo-coating resin

(2) Level 2 Prohibited Substances

Refer to substances other than those specified as the Level 1 Prohibited Substances, substances whose use is being progressively prohibited at a certain period by a treaty, law, or regulation, substances prohibited to be used in products by the Panasonic Group prior to a period specified by a treaty, law, or regulation, and substances restricted for use on a voluntary basis by the Panasonic Group. If detected, the use of the substances must be substituted based on the period or restriction conditions specified by these guidelines.

Table 3 Level 2 Prohibited Substances List (Substance Group)

No. ^{*1}	JGPSSI Substance Group No. ^{*2}	Substance Group	Applicable Law	Use Prohibited Date
16	B07	Poly-vinyl chloride (PVC), its mixtures, its copolymers	Panasonic Group's voluntary restriction	Uses restricted in new products to be put on market in and after April 2006 ^{*3}

*1: No. 1 to No. 15 have been deleted due to abolition.

*2: JGPSSI substance group number has been determined by JGPSSI and listed for reference purposes.

*3: The use restriction of polyvinylchloride, its mixtures, and its copolymers is based on Table 4.

Table 4 Major Uses of Level 2 Prohibited Substances

Substance: Polyvinylchloride (PVC), its mixtures, its copolymers	
Regulated Items	
Use of vinyl chloride resin in new products is regulated as follows. (1) Internal wiring in electrical and electronic products. Complete the material substitution: <ul style="list-style-type: none"> • For domestic new products in Japan by the end of March 2009 • For global new products by the end of March 2011. (2) Promote material substitution for applications other than internal wiring (power cords, etc.).	
The method of handling restricted individual components and materials shall comply with the request by each business unit of our company. The substitute PVC material shall be halogen-free (excluding fluorine) and shall not contain red phosphorus as a rule.	
Exemptions	<ul style="list-style-type: none"> • Applications impossible to maintain quality or safety without it, materials specified by law or regulation, materials specified by customer, etc. • Resin binder containing PVC-vinyl acetate copolymer (paint, ink, etc.) (Until a substitute technology is established)

(3) Managed Substances

This rank refers to substances whose consumption needs to be monitored and for which consideration needs to be given to human health, safety and hygiene, adequate treatment, etc. The intentional use of these substances is not restricted, but their use and contained concentration must be monitored. Any of these substances whose use exceeds 1000 ppm in contained concentration shown in Table 5 or intentionally used substances must be monitored.

Table5 Substance Group List of Managed Substances

No.	JGPSSI Substance Group No. *1	Substance Group Name	Major uses	Reason
K-1	A01	Antimony and its compounds (including alloys)	Pigments, dyes, catalysis, flame-retardants, stabilizers, optical lens, solder, ink	b, c
K-2	A02	Arsenic and its compounds (including alloys)	Glass de-coloring, pigment, paint, dye, semiconductor devices, flame-retardants, ink	b
K-3	A03	Beryllium and its compounds (including alloys)	Ceramics materials, alloys, catalysis, electrodes, molds, electrical contacts, spring materials	b, c
K-4	A04	Bismuth and its compounds (including alloys)	Lead-free solder, semiconductor terminal plating, electrodes, lead-alloys	d
K-5	A11	Nickel and its compounds (excluding alloys)	Pigments, paint, coloring agents, battery materials, plating, electrodes, surface treatment	b
K-6	A13	Selenium and its compounds (including alloys)	Semiconductor materials, photosensitive materials, pigments, paint, photo-receiving devices	b, c
K-8	A18	Organic tin compounds		B
K-9	B08	Non-specific brominated flame-retardants (excluding PBB, PBDE)	Plastics flame-retardants	d
K-10	C04	Ozone-depleting substances (HCFC)	Refrigerants	B
K-11	C06	Radioactive substances		B
K-12	C05	Phthalate esters	Plasticizer, dyes, pigments, ink	b

*1: The " JGPSSI Substance Group Number" has been determined by JGPSSI and listed for reference purposes.

Reason for selecting the substances:

B: Substances whose sale and use are restricted by laws and regulations.

b: Substances that may impact the environment, health, or safety/hygiene

c: Substances subject to hazardous waste laws and regulations

d: Substances that may have a negative impact during the management of end-of-life products

*2: No. K-7 and No. K-13 to No. K-16 are vacant due to abolition.

(4) Chemical Substances Management List

The substances discussed above are listed in the attachment (Table 6 "Chemical Substances Management List").

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank	Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	metal corrosion coefficient	Japan's Laws				Overseas Laws					Remarks						
											Class 1 Specified Chemicals in Chem-sub Law	Production-Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG	German Consumer Goods Ordinance			76/769/EEC			RoHS	JG/PSI Sub Gr No				
											Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited and its threshold			Applicable	Use limited and its threshold		Applicable					
Yes	1				Organic halogenized compounds	PCBs	1336-36-3	POLYCHLORINATEDBIPHENYL	PCB		Yes			Yes	Exceeding 50 mg/kg, preparations, products					Yes	Exceeding 50 mg/kg, preparations, products				B05	
Yes	1				Organic halogenized compounds	PCBs	61788-33-8	POLYCHLORINATEDTERPHENYL	PCT					Yes	Exceeding 50 mg/kg, preparations, products					Yes	Exceeding 50 mg/kg, preparations, products				B05	
Yes	2				Others	Asbestos	1332-21-4	Asbestos, unspecified						Yes	Exceeding 0.1 wt%, preparations and products incl. preparations and the substance					Yes	Market release prohibited for products intentionally incl. the substance				C01	
Yes	2				Others	Asbestos	12172-73-5	Amosite				Yes		Yes	Exceeding 0.1 wt%, preparations and products incl. preparations and the substance					Yes	Market release prohibited for products intentionally incl. the substance				C01	
Yes	2				Others	Asbestos	12001-29-5	Chrysotile						Yes	Exceeding 0.1 wt%, preparations and products incl. preparations and the substance					Yes	Market release prohibited for products intentionally incl. the substance				C01	
Yes	2				Others	Asbestos	12001-28-4	Crocidolite				Yes		Yes	Exceeding 0.1 wt%, preparations and products incl. preparations and the substance					Yes	Market release prohibited for products intentionally incl. the substance				C01	
Yes	2				Others	Asbestos	77536-66-4	ACTINOLITE						Yes	Exceeding 0.1 wt%, preparations and products incl. preparations and the substance					Yes	Market release prohibited for products intentionally incl. the substance				C01	
Yes	2				Others	Asbestos	77536-67-5	ANTHOPHYLLITE						Yes	Exceeding 0.1 wt%, preparations and products incl. preparations and the substance					Yes	Market release prohibited for products intentionally incl. the substance				C01	
Yes	2				Others	Asbestos	77536-68-6	TREMOLITE						Yes	Exceeding 0.1 wt%, preparations and products incl. preparations and the substance					Yes	Market release prohibited for products intentionally incl. the substance				C01	
Yes	3				Metal and its compounds	specific organic tin compound	56-35-9	Bis(tri-n-butyltin)oxide			Yes, antimold, antiseptic agnets, paints														A17	
Yes	4				Halogenized organic compounds	Short-chane psraffin chloride(C10-13)	85535-84-8	Short-chane psraffin chloride(C10-13)												Yes	Market release prohibited for products intentionally incl. the substance				B09	
Yes	5				Halogenized organic compounds	PBBs and PBDEs	59536-65-1 (67774-32-7)	Polybrominated biphenyls	PBB											Yes	Prohibited for incl. the 0.1wt% or more substance in molded products		Yes		B02	
Yes	5				Halogenized organic compounds	PBBs and PBDEs	40088-47-9	Tetrabromodiphenyl ether	PBDE											Yes	Prohibited for incl. the 0.1wt% or more substance in molded products		Yes		B03	
Yes	5				Halogenized organic compounds	PBBs and PBDEs	32534-81-9	Pentabromodiphenyl ether	PBDE										Yes	Prohibited for incl. the 0.1wt% or more substance in molded products		Yes		B03		
Yes	5				Halogenized organic compounds	PBBs and PBDEs	36483-60-0	Hexabromodiphenyl ether	PBDE														Yes		B03	
Yes	5				Halogenized organic compounds	PBBs and PBDEs	68928-80-3	Heptabromodiphenyl ether	PBDE														Yes		B03	
Yes	5				Halogenized organic compounds	PBBs and PBDEs	32536-52-0	Octabromodiphenyl Ether	PBDE										Yes	Prohibited for incl. the 0.1wt% or more substance in molded products		Yes		B03		
Yes	5				Halogenized organic compounds	PBBs and PBDEs	63936-56-1	Nonabromodiphenyl ether	PBDE														Yes		B03	
Yes	5				Halogenized organic compounds	PBBs and PBDEs	1163-19-5	Decabromodiphenyl ether	PBDE														Yes		B03	
Yes	5				Halogenized organic compounds	PBBs and PBDEs	M-153	other PBDEs	PBDE														Yes		B03	
Yes	7				Others	azo dyes and pigments forming specified amines	M-126	azo dyes and pigments forming specified amines (see P5)									Yes	Colored daily goods for contacting skins	min 30 mg/kg contained						C02	
Yes	8				Halogenized organic compounds	polychloronaphthalene	1321-65-9	Trichloronaphthalene			Yes, lubricant, cutting oil, paints														B06	
Yes	8				Halogenized organic compounds	polychloronaphthalene	1335-88-2	Tetrachloronaphthalene			Yes, lubricant, cutting oil, paints														B07	
Yes	8				Halogenized organic compounds	polychloronaphthalene	1321-64-8	Pentachloronaphthalene			Yes, lubricant, cutting oil, paints														B07	
Yes	8				Halogenized organic compounds	polychloronaphthalene	2234-13-1	Octachloronaphthalene			Yes, lubricant, cutting oil, paints														B07	
Yes	24				Others	ozon depleting substnces	75-71-8	Dichlorodifluoromethane	CF2Cl2	* CFC-12			Yes												C04	
Yes	24				Others	ozon depleting substnces	354-58-5 76-13-1	Trichlorotrifluoroethane	C2F3Cl3	* CFC-113			Yes												C04	
Yes	24				Others	ozon depleting substnces	75-69-4	Trichlorofluoromethane	CFC13	* CFC-11			Yes												C04	
Yes	24				Others	ozon depleting substnces	28605-74-5 76-12-0	tetrachlorodifluoroethane	C2F2Cl4	* CFC-112			Yes												C04	
Yes	24				Others	ozon depleting substnces	1320-37-2 76-14-2	dichlorotetrafluoroethane	C2F4Cl2	* CFC-114			Yes												C04	
Yes	24				Others	ozon depleting substnces	76-15-3	Chloropentafluoroethane	C2F5Cl	* CFC-115			Yes												C04	
Yes	24				Others	ozon depleting substnces	75-72-9	Chlorotrifluoromethane	CF3Cl	* CFC-13			Yes												C04	
Yes	24				Others	ozon depleting substnces	354-56-3	Pentachlorofluoroethane	C2FCl5	* CFC-111			Yes												C04	
Yes	24				Others	ozon depleting substnces	135401-87-5	Heptachlorofluoropropane	C3FCl7	* CFC-211			Yes												C04	

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank	Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	metal conversion coefficient	Japan's Laws				Overseas Laws					Remarks	
											Class 1 Specified Chemicals in Chem-sub Law	Provision-Forbidden Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG	German Consumer Goods Ordinance			76/769/EEC			RoHS
											Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited	Threshold	Applicable	Use limited and its threshold	Applicable		
Yes	24				Others	ozon depleting substnces	3182-26-1	Hexachlorodifluoropropane	C3F2Cl6 *	CFC-212			Yes								C04
Yes	24				Others	ozon depleting substnces	2354-06-5	Pentachlorotrifluoropropane	C3F3Cl5 *	CFC-213			Yes								C04
Yes	24				Others	ozon depleting substnces	29255-31-0 2268-46-4	Tetrachlorotetrafluoropropane	C3F4Cl4 *	CFC-214			Yes								C04
Yes	24				Others	ozon depleting substnces	1599-41-3 1652-81-9	Trichloropentafluoropropane	C3F5Cl3 *	CFC-215			Yes								C04
Yes	24				Others	ozon depleting substnces	661-97-2	Dichlorohexafluoropropane	C3F6Cl2 *	CFC-216			Yes								C04
Yes	24				Others	ozon depleting substnces	422-86-6	Heptafluoropropyl chloride	C3F7Cl *	CFC-217			Yes								C04
Yes	24				Others	ozon depleting substnces	1511-62-2	Bromodifluoromethane	CHF2Br *	HBFC-22B1			Yes								C04
Yes	24				Others	ozon depleting substnces	1868-53-7	Dibromofluoromethane	CHFBr2 *				Yes								C04
Yes	24				Others	ozon depleting substnces	373-52-4	Bromofluoromethane	CH2FBr *				Yes								C04
Yes	24				Others	ozon depleting substnces	306-80-9	Tetrabromofluoroethane	C2HF2Br4 *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-102	Tribromodifluoroethane	C2HF2Br3 *				Yes								C04
Yes	24				Others	ozon depleting substnces	354-04-1	Dibromotrifluoroethane	C2HF3Br2 *				Yes								C04
Yes	24				Others	ozon depleting substnces	124-72-1	Bromotetrafluoroethane	C2HF4Br *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-103	Tribromofluoroethane	C2HF3Br3 *				Yes								C04
Yes	24				Others	ozon depleting substnces	75-82-1	Dibromodifluoroethane	C2H2F2Br2 *				Yes								C04
Yes	24				Others	ozon depleting substnces	421-06-7	1,1,1-Trifluoro-2-bromoethane				Yes									C04
Yes	24				Others	ozon depleting substnces	358-97-4	Dibromofluoroethane	C2H3FBr2 *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-104	Bromodifluoroethane	C2H3F2Br *				Yes								C04
Yes	24				Others	ozon depleting substnces	762-49-2	Bromofluoroethane	C2H4FBr *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-105	Hexabromofluoropropane	C3HFBr6 *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-107	Tribromotetrafluoropropane	C3HF4Br3 *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-108	Tribromotrifluoropropane	C3H2F3Br3 *				Yes								C04
Yes	24				Others	ozon depleting substnces	431-78-7	Dibromopentafluoropropane	C3HF5Br2 *				Yes								C04
Yes	24				Others	ozon depleting substnces	2252-79-1	Bromohexafluoropropane	C3HF6Br *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-109	Pentabromodifluoropropane	C3HF2Br5 *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-127	Tetrabromotrifluoropropane	C3HF3Br4 *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-110	Pentabromofluoropropane	C3H2FBr5 *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-111	Tetrabromodifluoropropane	C3H2F2Br4 *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-112	Dibromotetrafluoropropane	C3H2F4Br2 *				Yes								C04
Yes	24				Others	ozon depleting substnces	460-88-8	Bromopentafluoropropane	C3H2F5Br *				Yes								C04
Yes	24				Others	ozon depleting substnces	M-113	Tetrabromofluoropropane	C3H3FBr4 *				Yes								C04
Yes	24				Others	ozon depleting substnces	70192-80-2	Tribromodifluoropropane	C3H3F2Br3 *				Yes								C04
Yes	24				Others	ozon depleting substnces	70192-83-5	Dibromotrifluoropropane	C3H3F3Br2 *				Yes								C04
Yes	24				Others	ozon depleting substnces	679-84-5	Bromotetrafluoropropane	C3H3F4Br *				Yes								C04
Yes	24				Others	ozon depleting substnces	75372-14-4	Tribromofluoropropane	C3H4FBr3 *				Yes								C04

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank	Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	metal conversion coefficient	Japan's Laws				Overseas Laws					Remarks							
											Class 1 Specified Chemicals in Chem-sub Law	Production-Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG	German Consumer Goods Ordinance			76/769/EEC			RoHS	JGPMI Sub Gr No					
											Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited	Threshold	Applicable	Use limited and its threshold	Applicable								
Yes	24				Others	ozon depleting substnces	460-25-3	Dibromodifluoropropane	C3H4F2Br2 *				Yes										C04				
Yes	24				Others	ozon depleting substnces	51584-26-0	Dibromodifluoropropane	C3H5FBr2 *				Yes											C04			
Yes	24				Others	ozon depleting substnces	421-46-5	bromotrifluoropropane	C3H4F3Br *				Yes											C04			
Yes	24				Others	ozon depleting substnces	353-59-3	Bromochlorodifluoromethane	CF2BrCl *	halon-1211			Yes											C04			
Yes	24				Others	ozon depleting substnces	74-97-5	Bromochloromethane	CH2BrCl *				Yes												C04		
Yes	24				Others	ozon depleting substnces	75-63-8	Bromotrifluoromethane	CF3Br *	halon-1301			Yes												C04		
Yes	24				Others	ozon depleting substnces	M-114	Bromodifluoropropane	C3H5F2Br *				Yes												C04		
Yes	24				Others	ozon depleting substnces	352-91-0	Bromofluoropropane	C3H6FBr *				Yes												C04		
Yes	24				Others	ozon depleting substnces	124-73-2	1,2-Dibromotetrafluoroethane	C2F4Br2 *	halon-2402			Yes												C04		
Yes	24				Others	ozon depleting substnces	56-23-5	Carbon tetrachloride					Yes												C04		
Yes	24				Others	ozon depleting substnces	71-55-6	1,1,1-trichloroethane					Yes												C04		
Yes	25				Others	formaldehyde	50-00-0	formaldehyde					Yes	Wooden products or furniture discharging 0.1 ppm or more gas													
Yes	19				Metal and its compounds	Cadmium and its compounds	7440-43-9	Cadmium		1.00												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	10108-64-2	Cadmium chloride		0.61												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	1306-19-0	Cadmium oxide		0.88												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	10325-94-7	Cadmium Nitrate		0.48												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	513-78-0	Cadmium carbonate		0.64												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	1306-23-6	Cadmium sulfide		0.78												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	10124-36-4	Cadmium sulfate		0.54												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	12214-12-9	Cadmium selenide sulfide		0.67												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	1306-24-7	Cadmium Selenide		0.59												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	1306-25-8	Cadmium Telluride		0.47												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	21041-95-2	Cadmium Hydroxide		0.77												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	2223-93-0	Cadmium Stearate		0.17												Yes	A05				
Yes	19				Metal and its compounds	Cadmium and its compounds	M-121	other cadmium compound														Yes	A05				
Yes	20				Metal and its compounds	Lead and its compounds	7439-92-1	Lead		1.00												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	6080-56-4	Lead(II) acetate trihydrate		0.55												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	7446-27-7	Lead(II) phosphate		0.77												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	12069-00-0	Lead selenide		0.72												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	1309-60-0	Lead(IV) oxide		0.87												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	1314-41-6	Lead oxide		0.91												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	1344-36-1	Lead subcarbonate		0.80												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	7758-97-6	Lead(II) chromate		0.64												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	12202-17-4	Lead oxide sulfate		0.85												Yes	A09				
Yes	20				Metal and its compounds	Lead and its compounds	1319-46-6	Lead(II) carbonate, basic		0.80			Yes	Prohibited to intentionally be used for paints				Yes	Prohibited to intentionally be used for paints	Yes	A09						

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank	Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	metal conversion coefficient	Japan's Laws				Overseas Laws					Remarks				
											Class 1 Specified Chemicals in Chem-sub Law		Prohibition-Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG			German Consumer Goods Ordinance			76/769/EEC		RoHS	JGPPSI Sub Gr No
											Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited and its threshold	Applicable	Use limited	Threshold	Applicable		Use limited and its threshold	Applicable		
Yes	20				Metal and its compounds	Lead and its compounds	598-63-0	Lead carbonate		0.78				Yes	Prohibited to intentionally be used for paints			Yes	Prohibited to intentionally be used for paints	Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	7446-14-2	Lead (II) Sulfate		0.68				Yes	Prohibited to intentionally be used for paints			Yes	Prohibited to intentionally be used for paints	Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	1072-35-1	Lead stearate		0.27										Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	12060-00-3	lead titanate		0.68										Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	12060-01-4	Lead (II) zirconate		0.60										Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	1311-11-1	Lead Hydroxide		0.84										Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	1317-36-8	Lead (II) oxide		0.93										Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	301-04-2	Lead acetate		0.64										Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	10099-74-8	Lead (II) nitrate		0.63										Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	1314-87-0	Lead (II) Sulfide		0.87										Yes	A09			
Yes	20				Metal and its compounds	Lead and its compounds	M-122	other lead compound												Yes	A09			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	1344-38-3	basic lead chromate	Pigment Orange 21	95(Cr)										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	1344-37-2	Lead Chromate	Pigment Yellow 34	61(Cr)										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	13530-68-2	Dichromic acid		0.48										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	7778-50-9	Potassium dichromate		0.35										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	10588-01-9	Sodium dichromate		0.40										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	1333-82-0	Chromium trioxide		0.52										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	10294-40-3	Barium Chromate		0.21										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	12053-18-8	Copper chromite		0.33										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	7789-06-2	strontium chromate		0.26										Yes	A07			
Yes	21				Metal and its compounds	Hexavalent chromium compounds	M-123	other chromium compound												Yes	A07			
Yes	22				Metal and its compounds	Mercury and its compounds	7439-97-6	Mercury		1.00										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	7487-94-7	mercury bichloride		0.74										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	21908-53-2	Mercury (II) oxide		0.93										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	15829-53-5	Mercurous Oxide		0.96										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	593-74-8	Dimethyl mercury		0.87										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	10112-91-1	Mercury chloride		0.85										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	33631-63-9	Mercury(II) chloride		0.74										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	7783-35-9	Mercury(II) sulfate		0.68										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	10045-94-0	Mercuric nitrate		0.62										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	1344-48-5	Mercuric sulfide		0.86										Yes	A10			
Yes	22				Metal and its compounds	Mercury and its compounds	M-124	other mercury compound												Yes	A10			
Yes	26				Others	Perfluorooctane sulfonate and its salts	307-35-7	1-Octanesulphonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more							
Yes	26				Others	Perfluorooctane sulfonate and its salts	376-14-7	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester									Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more						

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank	Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	metal corrosion coefficient	Japan's Laws				Overseas Laws					Remarks	
											Class 1 Specified Chemicals in Chem-sub Law	Production Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG	German Consumer Goods Ordinance			76/769/EEC			RoHS
											Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited and its threshold	Use limited	Threshold	Applicable	Use limited and its threshold	Applicable	
Yes	26				Others	Perfluorooctane sulfonate and its salts	383-07-3	2-Propenoic acid, 2-[butyl[[heptadecafluorooctyl]sulphonyl]amino]ethyl ester										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	423-82-5	2-Propenoic acid, 2-[ethyl[[heptadecafluorooctyl]sulphonyl]amino]ethyl ester										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	423-86-9	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	754-91-6	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	1652-63-7	1-Propanaminium, 3-[[[heptadecafluorooctyl]sulphonyl]amino]-N,N,N-trimethyl-, iodide										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	1691-99-2	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	1763-23-1	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	1869-77-8	Glycine, N-ethyl-N-[[heptadecafluorooctyl]sulphonyl]-, ethyl ester										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	2250-98-8	1-Octanesulphonamide, N,N',N"-[phosphinylidynetris(oxy-2,1-ethanediyl)]tris[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	2263-09-4	1-Octanesulphonamide, N-butyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	2795-39-3	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	2991-50-6	Glycine, N-ethyl-N-[[heptadecafluorooctyl]sulphonyl]-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	2991-51-7	Glycine, N-ethyl-N-[[heptadecafluorooctyl]sulphonyl]-, potassium salt										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	3820-83-5	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	3871-50-9	Glycine, N-ethyl-N-[[heptadecafluorooctyl]sulphonyl]-, sodium salt										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	4151-50-2	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	13417-01-1	1-Octanesulphonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	14650-24-9	2-Propenoic acid, 2-methyl-, 2-[[heptadecafluorooctyl]sulphonyl]methylamino]ethyl ester										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	24448-09-7	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	24924-36-5	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Others	Perfluorooctane sulfonate and its salts	25268-77-3	2-Propenoic acid, 2-[[[heptadecafluorooctyl]sulphonyl]methylamino]ethyl ester										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank	Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	metal corrosion coefficient	Japan's Laws				Overseas Laws					Remarks				
											Class 1 Specified Chemicals in Chem-sub Law		Prohibition Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG			German Consumer Goods Ordinance			76/769/EEC		RoHS	JG/PSI Sub Gr No
											Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited and its threshold			Applicable	Use limited		Threshold	Applicable	Use limited and its threshold	
Yes	26				Others	Perfluorooctane sulfonate and its salts	29081-56-9	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more					
Yes	26				Others	Perfluorooctane sulfonate and its salts	29117-08-6	Poly(oxy-1,2-ethanediyl), alpha-[2-[ethyl[[(heptadecafluorooctyl)sulphonyl]amino]ethyl]-omega-hydroxy											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	29457-72-5	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, lithium salt											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	30295-51-3	1-Octanesulphonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	30381-98-7	1-Octanesulphonamide, N,N'-[phosphinicobis(oxy-2,1-ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	31506-32-8	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	38006-74-5	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl]amino]-N,N',N'-trimethyl-, chloride											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	50598-29-3	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(phenylmethyl)-											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	52550-45-5	Poly(oxy-1,2-ethanediyl), a-[2-[[[(heptadecafluorooctyl)sulphonyl]propylamino]ethyl]-omega-hydroxy-											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	56773-42-3	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)										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more					
Yes	26				Others	Perfluorooctane sulfonate and its salts	57589-85-2	Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3-[[[(heptadecafluorooctyl)sulphonyl]oxy]phenyl]amino]carbonyl]-, monopotassium salt											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	58920-31-3	2-Propenoic acid, 4-[[[(heptadecafluorooctyl)sulphonyl]methylamino]butyl ester											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	61577-14-8	2-Propenoic acid, 2-methyl-, 4-[[[(heptadecafluorooctyl)sulphonyl]methylamino]butyl ester											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	61660-12-6	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trimethoxysilyl)propyl]-											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	67939-42-8	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trichlorosilyl)propyl]-											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	67969-69-1	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]-, diammonium salt											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	67939-88-2	1-Octanesulphonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, monohydrochloride											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	68081-83-4	Carbamic acid, (4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl] ester											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	68298-11-3	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl](3-sulphopropyl)amino]-N-(2-hydroxyethyl)-N,N-dimethyl-, hydroxide, inner salt											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank		Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M- No. stated to the left, unless otherwise specified.	Synonyms	metal conve rsion coeffic ient	Japan's Laws				Overseas Laws					Remarks		
Prohibited Sub Level 1	Sub Gr No							Prohibited Sub Level 2	Sub Gr No	Class 1 Specified Chemicals in Chemi-sub Law	Production-Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG	German Consumer Goods Ordinance				RoHS	JG/PSI Sub Gr No
								Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited and its threshold	Applicable	Use limited	Threshold	Applicable	Use limited and its threshold	Applicable	
Yes	26		Others	Perfluorooctane sulfonate and its salts	68329-56-6	2-Propenoic acid, eicosyl ester, polymer with 2- [[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2- propenoate, hexadecyl 2-propenoate, 2- [methyl]((nonafluorobutyl)sulphonyl)amino]ethyl 2- propenoate, 2[methyl]((pentadecafluoroheptyl)sulphonyl)amino]ethyl 2- propenoate, 2- [methyl]((tridecafluoroheptyl)sulphonyl)amino]ethyl 2- propenoate, 2- [methyl]((undecafluoropentyl)sulphonyl)amino]ethyl 2- propenoate and octadecyl 2-propenoate										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26		Others	Perfluorooctane sulfonate and its salts	68239-73-6	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro- N-(4-hydroxybutyl)-N-methyl-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26		Others	Perfluorooctane sulfonate and its salts	68310-75-8	1-Propanaminium, 3- [[[(heptadecafluorooctyl)sulphonyl]amino]-N,N',N'- trimethyl-, iodide, ammonium salt										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26		Others	Perfluorooctane sulfonate and its salts	68541-80-0	2-Propenoic acid, polymer with 2- [ethyl]((heptadecafluorooctyl)sulphonyl)amino]ethyl 2-methyl-2-propenoate and octadecyl 2- propenoate										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26		Others	Perfluorooctane sulfonate and its salts	68555-90-8	2-Propenoic acid, butyl ester, polymer with 2- [[[(heptadecafluorooctyl)sulphonyl]methylamino]et hyl 2-propenoate, 2- [methyl]((nonafluorobutyl)sulphonyl)amino]ethyl 2- propenoate, 2- [methyl]((pentadecafluoroheptyl)sulphonyl)amino]e thyl 2-propenoate, 2- [methyl]((tridecafluoroheptyl)sulphonyl)amino]ethyl 2-propenoate and 2- [methyl]((undecafluoropentyl)sulphonyl)amino]ethy l 2-propenoate										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26		Others	Perfluorooctane sulfonate and its salts	68555-91-9	2-Propenoic acid, 2-methyl-, 2- [ethyl]((heptadecafluorooctyl)sulphonyl)amino]ethyl ester, polymer with 2- [ethyl]((nonafluorobutyl)sulphonyl)amino] ethyl 2- methyl-2-propenoate, 2- [ethyl]((pentadecafluoroheptyl)sulphonyl)amino]eth yl 2-methyl-2-propenoate, 2- [ethyl]((tridecafluoroheptyl)sulphonyl)amino]ethyl 2- methyl-2-propenoate, 2- [ethyl]((undecafluoropentyl)sulphonyl)amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2- propenoate										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26		Others	Perfluorooctane sulfonate and its salts	68555-92-0	2-Propenoic acid, 2-methyl-, 2- [[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester, polymer with 2- [methyl]((nonafluorobutyl)sulphonyl)amino]ethyl 2- methyl-2-propenoate, 2- [methyl]((pentadecafluoroheptyl)sulphonyl)amino]eth yl 2-methyl-2-propenoate, 2- [methyl]((tridecafluoroheptyl)sulphonyl)amino]ethyl 2- methyl-2-propenoate, 2- [methyl]((undecafluoropentyl)sulphonyl)amino]ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2- propenoate										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26		Others	Perfluorooctane sulfonate and its salts	68608-14-0	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl- N-(hydroxyethyl), reaction products with 1,1'- methylenebis[4-isocyanatobenzene]										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank				Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M- No. stated to the left, unless otherwise specified.	Synonyms	metal conver- sion coeffic- ient	Japan's Laws				Overseas Laws					Remarks				
Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No							Class 1 Specified Chemicals in Chem-sub Law		Production-Forbidden Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG			German Consumer Goods Ordinance			76/769/EEC		RoHS	JG/PSI Sub Gr No
										Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited and its threshold			Applicable	Use limited		Threshold	Applicable	Use limited and its threshold	
Yes	26			Others	Perfluorooctane sulfonate and its salts	68649-26-3	1-Octanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro- N-(2-hydroxyethyl)-, reaction products with N- ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2- hydroxyethyl)-1-butanedisulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N- (2-hydroxyethyl)-1-heptanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2- hydroxyethyl)-1-hexanesulfonamide, N-ethyl- 1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2- hydroxyethyl)-1-pentanesulfonamide, polymethylenepolyphenylene isocyanate and stearyl aic.									Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more						
Yes	26			Others	Perfluorooctane sulfonate and its salts	68867-60-7	2-Propenoic acid, 2- [[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl ester, polymer with 2- [methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2- propenoate, 2- [methyl[(pentadecafluoroheptyl)sulfonyl]amino]eth yl 2-propenoate, 2- [methyl[(tridecafluoroheptyl)sulfonyl]amino]ethyl 2- propenoate, 2- [methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and alpha-(1-oxo-2-propenyl)- omega-methoxypropyl(oxy-1,2-ethanediyl)										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more					
Yes	26			Others	Perfluorooctane sulfonate and its salts	68877-32-7	2-Propenoic acid, 2-methyl-, 2- [ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester, polymer with 2- [ethyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2- methyl-2-propenoate, 2- [ethyl[(pentadecafluoroheptyl)sulphonyl]amino]eth yl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluoro- hexyl)sulphonyl]amino]ethyl 2-methyl-2- propenoate, 2-[ethyl[(undecafluoro- pentyl)sulphonyl]amino]ethyl 2-methyl-2- propenoate and 2-methyl-1,3-butadiene										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more					
Yes	26			Others	Perfluorooctane sulfonate and its salts	68891-96-3	Chromium, diaquatetrachloro[.mu.-[N-ethyl-N- [(heptadecafluorooctyl)sulphonyl] glycinato- kappa O: kappa O]]-.mu.-hydroxybis(2- methylpropano)]di-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more					
Yes	26			Others	Perfluorooctane sulfonate and its salts	68909-15-9	2-Propenoic acid, eicosyl ester, polymers with branched octyl acrylate, 2- [[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl acrylate, 2- [methyl[(nonafluorobutyl)sulfonyl]amino]ethyl acrylate, 2- [methyl[(pentadecafluoroheptyl)sulfonyl]amino]eth yl acrylate, 2- [methyl[(tridecafluoroheptyl)sulfonyl]amino]ethyl acrylate, 2- [methyl[(undecafluoropentyl)sulfonyl]amino]ethyl acrylate, polyethylene glycol acrylate Me ether and stearyl acrylate										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more					
Yes	26			Others	Perfluorooctane sulfonate and its salts	68958-61-2	Poly(oxy-1,2-ethanediyl), alpha-[2- [ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl]-omega.-methoxy-										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more					
Yes	26			Others	Perfluorooctane sulfonate and its salts	70225-14-8	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)										Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more					

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank	Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	metal conversion coefficient	Japan's Laws				Overseas Laws					Remarks				
											Class 1 Specified Chemicals in Chem-sub Law		Prohibition Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG			German Consumer Goods Ordinance			76/769/EEC		RoHS	JG/PSI Sub Gr No
											Applicable, use limited and its threshold		Applicable, use limited and its threshold	Applicable	Applicable	Use limited and its threshold			Applicable		Use limited	Threshold	Applicable	
Yes		26			Others	Perfluorooctane sulfonate and its salts	70776-36-2	2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes		26			Others	Perfluorooctane sulfonate and its salts	71463-78-0	Phosphonic acid, [3-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]propyl]-											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes		26			Others	Perfluorooctane sulfonate and its salts	71463-80-4	Phosphonic acid, [3-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]propyl]-, diethyl ester											Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes		26			Others	Perfluorooctane sulfonate and its salts	71487-20-2	2-Propenoic acid, 2-methyl-, methylester, polymer with ethenylbenzene.2-[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluoroheptyl)sulfonyl]amino]ethyl 2-propenoate and 2-[methyl[(undecafluoropentyl)sulfonyl]amino]ethyl 2-propenoate and 2-propenoic acid												Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes		26			Others	Perfluorooctane sulfonate and its salts	91081-99-1	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)												Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes		26			Others	Perfluorooctane sulfonate and its salts	92265-81-1	Ethanaminium, N,N,N-trimethyl-2-[[2-methyl-1-oxo-2-propenyl]oxy]-, chloride, polymer with 2-ethoxyethyl 2-propenoate, 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate												Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes		26			Others	Perfluorooctane sulfonate and its salts	94133-90-1	1-Propanesulphonic acid, 3-[[3-(dimethylamino)propyl][(heptadecafluorooctyl)sulphonyl]amino]-2-hydroxy-, monosodium salt												Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes		26			Others	Perfluorooctane sulfonate and its salts	94313-84-5	Carbamic acid, [5-[[[2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl]oxy]carbonyl]amino]-2-methylphenyl]-, 9-octadecyl ester, (Z)-												Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes		26			Others	Perfluorooctane sulfonate and its salts	98999-57-6	Sulphonamides, C7-8-alkane, perfluoro, N-methyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl], polymers with 2-ethoxyethyl acrylate, glycidyl methacrylate and N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride												Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes		26			Others	Perfluorooctane sulfonate and its salts	127133-66-8	2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl methacrylate												Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes		26			Others	Perfluorooctane sulfonate and its salts	129813-71-4	Sulphonamides, C4-8-alkane, perfluoro, N-methyl-N-(oxiranylmethyl)												Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank	Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	metal conversion coefficient	Japan's Laws				Overseas Laws					Remarks	
											Class 1 Specified Chemicals in Chem-sub Law	Production Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG	German Consumer Goods Ordinance			76/769/EEC			RoHS
											Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited	Threshold	Applicable	Use limited and its threshold	Applicable		
Yes	26				Others	Perfluorooctane sulfonate and its salts	148240-78-2	Fatty acids, C18-unsatd., trimers, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl esters									Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes	26				Others	Perfluorooctane sulfonate and its salts	148684-79-1	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glycol									Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes	26				Others	Perfluorooctane sulfonate and its salts	160901-25-7	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate									Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more			
Yes	26				Others	Perfluorooctane sulfonate and its salts	178094-69-4	1-Octanesulphonamide, N-[3-(dimethyloxidamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-,potassium salt								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	178535-22-3	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl)-, polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyphenylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	182700-90-9	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-, reaction products with benzene-chlorine-sulphur chloride (S2Cl2) reaction products chlorides								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	192662-29-6	Sulphonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	251099-16-8	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)								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	306973-46-6	Fatty acids, linseed-oil, dimers, 2-[[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl esters								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	306973-47-7	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxystearic acid and 2,4-TDI, ammonium salts								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	306974-19-6	Sulphonamides, C4-8-alkane, perfluoro, N-methyl-N-[[3-octadecyl-2-oxo-5-oxazolidinyl)methyl]								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	306974-28-7	Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]group]-terminated, polymers with 2-[methyl(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and stearyl methacrylate								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	306974-45-8	Sulphonic acids, C6-8-alkane, perfluoro, compounds with polyethylene-polypropylene glycol bis(2-aminopropyl) ether								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				
Yes	26				Others	Perfluorooctane sulfonate and its salts	306974-63-0	Fatty acids, C18-unsatd., dimers, 2-[methyl(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl esters								Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more				

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank		Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M- No. stated to the left, unless otherwise specified.	Synonyms	metal conver sion coeffic ient	Japan's Laws				Overseas Laws					Remarks	
Prohibited Sub Level 1	Sub Gr No							Prohibited Sub Level 2	Sub Gr No	Class 1 Specified Chemicals in Chemi-sub Law	Production-Prohibited Chemicals in Article 56, the Safety Law	Ozone Layer Law	ChemG	German Consumer Goods Ordinance				76/769/EEC
								Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited and its threshold	Use limited	Threshold	Applicable	Use limited and its threshold	Applicable	
Yes	26				Perfluorooctane sulfonate and its salts	306975-56-4										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306975-57-5										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306975-62-2										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306975-84-8										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306975-85-9										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306976-25-0										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306976-55-6										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306977-58-2										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306978-04-1										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26				Perfluorooctane sulfonate and its salts	306978-65-4										parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		

Table 6

Chemical Substances Management List (Level 1 and Level 2 prohibited)

Rank				Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M- No. stated to the left, unless otherwise specified.	Synonyms	metal conve rsion coeffic ient	Japan's Laws				Overseas Laws					Remarks
Prohibited Sub Level 1	Sub Gr No	Prohibited Sub Level 2	Sub Gr No							ChemG		German Consumer Goods Ordinance			76/769/EEC		RoHS	JGPPSI Sub Gr No	
										Class 1 Specified Chemicals in Chem-sub Law	Production-Forbidden Chemicals in Article 56, the Safety Law	Ozone Layer Law	Applicable, use limited and its threshold	Applicable, use limited and its threshold	Applicable	Applicable	Use limited		
Yes	26			Others	Perfluorooctane sulfonate and its salts	306979-40-8	Poly(oxy-1,2-ethanediyl), alpha-[2- (methylamino)ethyl]-omega-[(1,1,3,3- tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8- alkyl)sulphonyl]									Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26			Others	Perfluorooctane sulfonate and its salts	306980-27-8	Sulphonamides, C4-8-alkane, perfluoro, N,N-[1,6- hexanedylbis(2-oxo-3,5- oxazolidinediy)methylene]bis[N-methyl-									Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	26			Others	Perfluorooctane sulfonate and its salts	M-172	other Perfluorooctane sulfonate and its salts									Yes	parts: 1,000 ppm or more, surface coating: 1ug/m2 or more		
Yes	27			Others	Specified benzotriazole	3846-71-7	Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1- dimethylethyl)-		Yes										
	Yes	16		Halogenized organic compounds copolymer	PVC and its mixtures, copolymer	M-12 9002-96-2	PVC and its mixture												B07
	Yes	16		Halogenized organic compounds copolymer	PVC and its mixtures, copolymer	9003-22-9	Vinyl chloride/vinyl acetate copolymer												B07

Table 6

Chemical Substances Management List (Managed Substances)

Rank	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	Metal Conversion Coefficient	JGPSSI Sub Gr No	Remarks
Managed	K-6	Metal and its compounds	Selenium and its compounds	7782-49-2	Selenium		1.00	A13	
Managed	K-6	Metal and its compounds	Selenium and its compounds	7446-08-4	Selenium dioxide		0.71	A13	
Managed	K-6	Metal and its compounds	Selenium and its compounds	7783-07-5	Hydrogen selenide		0.98	A13	
Managed	K-6	Metal and its compounds	Selenium and its compounds	1313-85-5	Sodium selenide		0.63	A13	
Managed	K-6	Metal and its compounds	Selenium and its compounds	10112-94-4	Sodium selenate			A13	
Managed	K-6	Metal and its compounds	Selenium and its compounds	593-79-3	Dimethyl selenide		0.72	A13	
Managed	K-6	Metal and its compounds	Selenium and its compounds	M-128	other selenium compound			A13	
Managed	K-1	Metal and its compounds	Antimony and its compounds	7440-36-0	Antimony		1.00	A01	
Managed	K-1	Metal and its compounds	Antimony and its compounds	1314-60-9	Antimony pentoxide		0.75	A01	
Managed	K-1	Metal and its compounds	Antimony and its compounds	1309-64-4	Antimony trioxide		0.84	A01	
Managed	K-1	Metal and its compounds	Antimony and its compounds	10025-91-9	Antimony trichloride		0.53	A01	
Managed	K-1	Metal and its compounds	Antimony and its compounds	15432-85-6	Sodium antimonate		0.63	A01	
Managed	K-1	Metal and its compounds	Antimony and its compounds	M-129	other antimony compound			A01	
Managed	K-5	Metal and its compounds	Nickel and its compounds	7440-02-0	Nickel		1.00	A11	
Managed	K-5	Metal and its compounds	Nickel and its compounds	1313-99-1	Nickel (II) oxide		0.79	A11	
Managed	K-5	Metal and its compounds	Nickel and its compounds	7786-81-4	Nickel Sulfate		0.38	A11	
Managed	K-5	Metal and its compounds	Nickel and its compounds	7718-54-9	Nickel chloride		0.45	A11	
Managed	K-5	Metal and its compounds	Nickel and its compounds	M-130	other 'Nickel' compound			A11	
Managed	K-2	Metal and its compounds	Arsenic and its compounds	7440-38-2	Arsenic		1.00	A02	
Managed	K-2	Metal and its compounds	Arsenic and its compounds	1303-00-0	Gallium arsenide		0.52	A02	
Managed	K-2	Metal and its compounds	Arsenic and its compounds	7778-44-1	Calcium arsenate		0.42	A02	
Managed	K-2	Metal and its compounds	Arsenic and its compounds	27152-57-4	Calcium arsenite		0.41	A02	
Managed	K-2	Metal and its compounds	Arsenic and its compounds	M-131	other arsenic compound			A02	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	7440-41-7	Beryllium		1.00	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	12770-50-2	Beryllium-aluminum alloy			A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	7787-47-5	Beryllium chloride		0.11	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	7787-49-7	Beryllium fluoride		0.19	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	13327-32-7	Beryllium hydroxide		0.21	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	1304-56-9	Beryllium oxide		0.36	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	13598-15-7	Beryllium hydrogenphosphate		0.15	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	13510-49-1	Beryllium sulphate		0.09	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	7787-56-6	Beryllium sulfate tetrahydrate		0.05	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	1302-52-9	Beryllium aluminum silicate		0.05	A03	
Managed	K-3	Metal and its compounds	Beryllium and its compounds	M-132	other beryllium compound			A03	
Managed	K-4	Metal and its compounds	Bismuth and its compounds	7440-69-9	Bismuth		1.00	A04	
Managed	K-4	Metal and its compounds	Bismuth and its compounds	1304-76-3	Bismuth trioxide		0.90	A04	
Managed	K-4	Metal and its compounds	Bismuth and its compounds	10361-44-1	Bismuth nitrate		0.53	A04	
Managed	K-4	Metal and its compounds	Bismuth and its compounds	M-133	other bismuth compound			A04	
Managed	K-8	Metal and its compounds	organic tin compounds	1803-12-9	Triphenyltin N,N-dimethyldithiocarbamate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	379-52-2	Triphenyltin fluoride			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	900-95-8	Triphenyltin acetate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	639-58-7	Triphenyltin Chloride			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	76-87-9	Triphenyltin hydroxide			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	47672-31-1	Triphenyltin fatty acid salts (C=9-11)			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	7094-94-2	Triphenyltin chloroacetate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	2155-70-6	Tributyltin methacrylate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	6454-35-9	Bis (tributyltin) fumarate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	1983-10-4	Tributyltin fluoride			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	31732-71-5	Bis(tributyltin) 2,3-dibromosuccinate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	56-36-0	Tributyltin acetate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	3090-36-6	Tributyltin laurate			A17	

Table 6

Chemical Substances Management List (Managed Substances)

Rank	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	Metal Conversion Coefficient	JGPSSI Sub Gr No	Remarks
Managed	K-8	Metal and its compounds	organic tin compounds	4782-29-0	Bis (tributyltin) phthalate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	M-135	Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate (alkyl; C=8)			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	6517-25-5	Tributyltin sulfamate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	14275-57-1	Bis (tributyltin) maleate			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	1461-22-9	tributylchlorostannane			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	M-136	Mixture of tributyltin cyclopentanecarboxylate and its analogs (Tributyltin naphthenate)			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	M-137	Mixture of tributyltin 1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthlenecarboxylate and its analogs (Tributyltin rosin salt)			A17	
Managed	K-8	Metal and its compounds	organic tin compounds	M-138	Other Tributyl Tins & Triphenyl Tins			A17	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	69882-11-7	Poly(2,6-Dibromophenylene oxide)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	58965-66-5	Tetradecabromo (p-diphenoxybenzene)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	37853-59-1	1,2-Bis(2,4,6-tribromophenoxy)ethane			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	79-94-7	2,2-bis(3,5-dibromo-4-hydroxyphenyl)propaneA			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	30496-13-0	TBBA, unspecified			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	40039-93-8	TBBA-epichlorhydrin oligomer			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	70682-74-5	TBBA-diglycidyl-ether oligomer			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	28906-13-0	Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis(2,6-dibromophenol)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	94334-64-2	TBBPA carbonate oligomer (BC52)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	71342-77-3	TBBPA carbonate oligomer (BC58)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	21850-44-2	Tetrabromobisphenol a bis(dibromopropyl ether)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	4162-45-2	Tetrabromobisphenol a bis(hydroxyethyl ether)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	25327-89-3	TBBPA bis(allyl ether)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	37853-61-5	TBBPA dimethyl ethyl			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	39635-79-5	Tetrabromobisphenol S			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	42757-55-1	Bis[3,5-dibromo-4-(2,3-dibromopropoxy)phenyl] sulfone			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	615-58-7	2,4-Dibromophenol			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	118-79-6	2,4,6-Tribromophenol			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	608-71-9	pentabromophenol			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	3278-89-5	Allyl 2,4,6-Tribromophenyl Ether			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	26762-91-4	Tribromo-phenyl-allyl-ether, unspecified			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	3194-55-6	1,2,5,6,9,10-Hexabromocyclododecane			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	31454-48-5	Tetrabromo-chyclo-octane			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	3322-93-8	1,2-dibromo-4-(1,2-dibromoethyl)cyclohexane			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	632-79-1	tetrabromophthalic anhydride			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	55481-60-2	bis(methyl)tetrabromophthalate			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	26040-51-7	Bis(2-ethylhexyl)tetrabromo-phthalate, 1,2-Benzenedicarboxylic acid			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	20566-35-2	TBPA diester/ether diol			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	3234-02-4	trans-1,4-Dihydroxy-2,3-dibromo-2-butene			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	3296-90-0	Dibromoneopentyl glycol			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	96-13-9	2,3-Dibromo-1-Propanol			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	36483-57-5	Tribromoneopentyl alcohol			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	57137-10-7	Poly-tribromostyrene			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	61368-34-1	tribromostyrene			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	31780-26-4	Poly-dibromo-styrene			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	68955-41-9	Bromo-/Chloro-paraffins			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	82600-56-4	Bromo-/Chloro-alpha-olefin			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	593-60-2	bromoethylene			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	52434-90-9	Tris(2,3-dibromopropyl)isocyanurate			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	49690-63-3	2,4-Dibromophenylphosphate			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	19186-97-1	Tris (tribromoneopentyl) phosphate			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	87-83-2	pentabromotoluene			B08	

Table 6

Chemical Substances Management List (Managed Substances)

Rank	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	Metal Conversion Coefficient	JGSSSI Sub Gr No	Remarks
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	38521-51-6	Pentabromo-benzyl bromide			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	59447-55-1	Pentabromo-benzyl-acrylate, monomer			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	59447-57-3	Poly(pentabromobenzyl acrylate)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	32844-27-2	TBBA-bisphenolA-phosgene polymer			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	139638-58-7	Brominated epoxy resin end-capped with tribromophenol			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	75790-69-1	TBPA, glycol-and propylene-oxide esters			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	32588-76-4	1,2-Bis(tetrabromophthalimide)ethane			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	52907-07-0	Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	125997-20-8	Phosphoric acid, mixed 3-bromo-2,2-dimethyl propyl and 2-chloroethyl esters			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	59789-51-4	Tribromo-bisphenyl-maleinimide			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	61262-53-1	Decabromodiphenyl ethane			B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	84852-53-9	Ethane-1,2-bis(pentabromophenyl)	SAYTEX 8010		B08	
Managed	K-9	Halogenized organic compounds	Non-specific bromine-based flame-retardants	M-11C	other brominated flame retardant			B08	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	75-43-4	Dichloromonofluoromethane	CHFCl ₂ * HCFC-21		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	75-45-6	Chlorodifluoromethane	CHF ₂ Cl * HCFC-22		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	593-70-4	Chlorofluoromethane	CH ₂ FCl * HCFC-31		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-32-4	Tetrachlorofluoroethane	C ₂ HFC ₄ * HCFC-121		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	41834-16-6	Trichlorodifluoroethane	C ₂ HF ₂ Cl ₃ * HCFC-122		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	306-83-2	2,2-dichloro-1,1,1-trifluoroethane	HCFC-123		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	M-139	other dichlorotrifluoroethane	C ₂ HF ₃ Cl ₂ * HCFC-123		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	2837-89-0	2-chloro-1,1,1,2-tetrafluoroethane	HCFC-124		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	M-140	other chlorotetrafluoroethane	C ₂ HF ₄ Cl * HCFC-124		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-34-6	Trichlorofluoroethane	C ₂ H ₂ FC ₃ * HCFC-131		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	25915-78-0	Dichlorodifluoroethane	C ₂ H ₂ F ₂ Cl ₂ * HCFC-132		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	75-88-7	Trifluoroethylchloride	C ₂ H ₂ F ₃ Cl * HCFC-133		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	1717-00-6	dichlorofluoroethane	C ₂ H ₃ FCl ₂ * HCFC-141b		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	M-141	other dichlorofluoroethane	C ₂ H ₃ FCl ₂ * HCFC-141		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	75-68-3	1-chloro-1,1-difluoroethane	HCFC-142b		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	M-142	other chlorodifluoroethane	C ₂ H ₃ F ₂ Cl * HCFC-142		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	1615-75-4	Chlorofluoroethane	C ₂ H ₄ FCl * HCFC-151		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-35-7	Hexachlorofluoropropane	C ₃ HFCl ₆ * HCFC-221		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-36-8	Pentachlorodifluoropropane	C ₃ HF ₂ Cl ₅ * HCFC-222		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-37-9	Tetrachlorotrifluoropropane	C ₃ HF ₃ Cl ₄ * HCFC-223		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-38-0	Trichlorotetrafluoropropane	C ₃ HF ₄ Cl ₃ * HCFC-224		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	422-56-0	3,3-Dichloro-1,1,1,2,2-pentafluoropropane	HCFC-225ca		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	507-55-1	1,3-Dichloro-1,1,2,2,3-pentafluoropropane	HCFC-225cb		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	M-143	other Dichloropentafluoropropane	C ₃ HF ₅ Cl ₂ * HCFC-225		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134308-72-8	Chlorohexafluoropropane	C ₃ HF ₆ Cl * HCFC-226		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134190-48-0	Pentachlorofluoropropane	C ₃ H ₂ FCl ₅ * HCFC-231		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-39-1	Tetrachlorodifluoropropane	C ₃ H ₂ F ₂ Cl ₄ * HCFC-232		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-40-4	Trichlorotrifluoropropane	C ₃ H ₂ F ₃ Cl ₃ * HCFC-233		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	127564-83-4	Dichlorotetrafluoropropane	C ₃ H ₂ F ₄ Cl ₂ * HCFC-234		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-41-5	Chloropentafluoropropane	C ₃ H ₂ F ₅ Cl * HCFC-235		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134190-49-1	Tetrachlorofluoropropane	C ₃ H ₃ FCl ₄ * HCFC-241		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-42-6	Trichlorodifluoropropane	C ₃ H ₃ F ₂ Cl ₃ * HCFC-242		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-43-7	Dichlorotrifluoropropane	C ₃ H ₃ F ₃ Cl ₂ * HCFC-243		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134190-50-4	Chlorotetrafluoropropane	C ₃ H ₃ F ₄ Cl * HCFC-244		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134190-51-5	Trichlorofluoropropane	C ₃ H ₄ FCl ₃ * HCFC-251		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134190-52-6	Dichlorodifluoropropane	C ₃ H ₄ F ₂ Cl ₂ * HCFC-252		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-44-8	Chlorotrifluoropropane	C ₃ H ₄ F ₃ Cl * HCFC-253		C04	

Table 6

Chemical Substances Management List (Managed Substances)

Rank	Sub Gr No	Category	substance group	CAS No. M-No is MEI group original control No.	substance name *: The substances shown in this molecular formula shall be represented by CAS No. or M-No. stated to the left, unless otherwise specified.	Synonyms	Metal Conversion Coefficient	JGPSSI Sub Gr No	Remarks
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134237-45-9	Dichlorofluoropropane C ₃ H ₅ FCl ₂ *	HCFC-261		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134190-53-7	Chlorodifluoropropane C ₃ H ₅ F ₂ Cl *	HCFC-262		C04	
Managed	K-10	Ozone-depleting substances	Ozone-depleting substances other than level 1 substances	134190-54-8	Chlorofluoropropane C ₃ H ₆ FCI *	HCFC-271		C04	
Managed	K-11	Others	Radioactive substances	7440-61-1	Uranium		1.00	C06	
Managed	K-11	Others	Radioactive substances	7440-07-5	Plutonium		1.00	C06	
Managed	K-11	Others	Radioactive substances	10043-92-2	Radon		1.00	C06	
Managed	K-11	Others	Radioactive substances	7440-35-9	Americium		1.00	C06	
Managed	K-11	Others	Radioactive substances	7440-29-1	Thorium		1.00	C06	
Managed	K-11	Others	Radioactive substances	7440-46-2	cesium		1.00	C06	
Managed	K-11	Others	Radioactive substances	7440-24-6	Strontium		1.00	C06	
Managed	K-11	Others	Radioactive substances	M-144	other radioactives			C06	
Managed	K-12	Others	Phthalate esters	117-81-7	di-sec-octyl phthalate			C05	
Managed	K-12	Others	Phthalate esters	28553-12-0	Diisononyl Phthalate			C05	
Managed	K-12	Others	Phthalate esters	26761-40-0	Diisodecyl phthalate			C05	
Managed	K-12	Others	Phthalate esters	117-84-0	bis(n-octyl) Phthalate			C05	
Managed	K-12	Others	Phthalate esters	84-74-2	Dibutyl phthalate			C05	
Managed	K-12	Others	Phthalate esters	117-82-8	Di-(2-methoxyethyl) phthalate			C05	
Managed	K-12	Others	Phthalate esters	85-68-7	benzyl n-butyl phthalate			C05	
Managed	K-12	Others	Phthalate esters	M-145	other phtharates			C05	

7. Major Changes from Version 4

Revision History	Revision Contents
4.1)	-Name change "Product Chemical Substances Management Subcommittee" → "Product Chemical Substance Management Subcommittee and Technology Subcommittee"
5. 2) Level 1 Prohibited Substances	-Added a supplementary phrase "(Intentional use is not permitted even if the contained quantity is less than the regulated value.)"
5. 5) Contained in products	- Added a supplementary phrase "Condition in which the subject substance is contained as an impurity" - Description style changed to itemized form
5. 9) Controlled value	- Reviewed the description content The word "a supplier" has been deleted from "The value is used for monitoring within the Matsushita Group or a supplier" - Added a supplementary phrase "(Controlled value is not intended for requesting the Non-use Warranty from the supplier)"
6. 1) Level 1 Prohibited Substances	- Reviewed the description content The word "a supplier" has been deleted from "the regulated value for the purpose of control by the Matsushita Group and a supplier"
	- Added substance groups - Perfluorooctane sulfonate and its salts - Specified benzotriazole, 2- (2H-1,2,3-benzotriazole-2-il) -4, 6-di-tert-butylphenol
	- Changed the regulated value The regulated value of "Specified organic tincompounds" has been changed from "Intentional use prohibited and less than 1000 ppm" to "Intentional uses prohibited"
	- Changed the regulated value The regulated value of "cadmium and its compounds" in "resin (incl. rubber, film), paint, ink, pigment, dye" has been updated from 75 ppm to 100 ppm based on the establishment of the Danish domestic law on the RoHS Directive.
	- Added a supplementary phrase "*7: If no intentional use is verified by tracing back the supply chain, the analysis for checking non-use of the subject substance is not required. If an impurity contamination is detected, the response needs to be determined separately."
	- Added a supplementary phrase "*8: The regulated value 1000 ppm indicates the concentration of each substance of PBB and PBDE."
6. 1) Level 1 Prohibited Substances, Table 2	- Assigned Table numbers "Table 2-1 to Table 2-7"
	- Added Tables "Table 2-8, Table 2-9"
	- Changed the terminology In Table 2-6, "products destined to regions other than the EU" has been changed to "products destined for regions other than those regulated by law."
6. 2) Level 2 Prohibited Substances	- Revised the content Revised the regulated target of "polyvinyl chloride, its mixtures, and its copolymers"

Errors corrected

May 21, 2008	6. 4) Chemical Substances Management List	Corrected restricted applications and thresholds. - PCBs: max 50 mg/kg → Exceeding 50 mg/kg - Asbestos: max 0.1wt% → Exceeding 0.1 wt%
	6. 4) Chemical Substances Management List	Added "M-172 Other perfluorooctane sulfonate and its salts" for Substance group No. 26.

Others

October 1, 2008	General	Document revision required due to the company name change - Ver.5 → Ver.5.1 - Change "Matsushita Group" to "Panasonic Group"
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Panasonic Group
Chemical Substances Management Rank Guidelines
Version 5.1 (For Products)

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