

Miki Pulley Group
Green Procurement Standard
Version 3.0

1.Purpose

It aims at clarifying the quality of the use prohibition substance, and standard of management, and contributing to society through environmental influence reduction of Miki Pulley Group products about the chemical substance contained on the raw material and the parts which constitute the green products which Miki Pulley Group sells.

2.Scope of Application

This Standard applies the green products marketed by Miki Pulley Group and to all raw materials, parts, and other articles that compose such green products.

3.Definitions of Terms

3.1 Green products

Green products mean the product that guarantees the nonuse of the chemical substance indicated in "Table 1. Certain Hazardous Substances"

It is also the products that observed the statute and regulation as the maker whom Miki Pulley Group provides with the products all over the world.

Green products are displayed in the drawings and the parts lists, etc. , "Green product", "RoHS directive acceptable products", and "Management G(G is a green initial)", etc.

3.2 Certain hazardous substances

Materials and chemical substances that prohibits using, and are permitted to contain as impurities not exceeding the maximum concentration value.

3.3 Substances

Substances are chemical elements and their compounds (e.g., lead (chemical element), lead oxide (compound), polyvinyl chloride (compound)).

3.4 Maximum concentration value

The maximum permissible density that is permitted to be contained as impurities.

3.5 Certificate of Chemical Substances Nonuse in Products

Document certifying that materials or parts currently supplied by Miki Pulley Group's vendors and suppliers as well those to be supplied in the future do not contain the certain hazardous substances.

(“Certificate of Chemical Substances Nonuse in Products (04-00006 Form-A)”)

3.6 Homogeneous material

“Homogeneous material” means a material that cannot be mechanically disjointed into different materials. The term “homogeneous” is understood as “of uniform composition throughout”.

4. Materials for investigation and management

The example of the materials for investigation and management is displayed on “Table 2. Materials for investigation and management.”

5. Procurement Standards for Chemical Substances

5.1 Certain hazardous substances and Materials for investigation

- (1) Use of the chemical substances displayed on "Table 1 Certain hazardous substances" of this standard is prohibited.
- (2) The maximum concentration value of impurities is as follows in a homogeneous material.
- (2.1) Concentrations of "Hexavalent chromium compounds," "Lead and lead compounds," "Mercury and mercury compounds," "Polybrominated biphenyls (PBBs)," or "Polybrominated diphenyl ethers (PBDEs)" shall be less than 1,000 mg/kg (ppm).
- (2.2) Concentrations of "Cadmium and cadmium compounds" shall be less than 100 mg/kg (ppm).
- (3) The supplier's Certificate of Chemical Substances Nonuse in Products is required in principle.
- (4) The investigation materials and the prohibited materials of each product might be added by the customer requirements, and the Certificate of Chemical Substances Nonuse in Products of the added material might be required.
- (5) The materials in which the exempted applications for the Certain Hazardous Substances are described admits the use of the usage, and are displayed in "Table 5 Exemptions" in this standard.
- (6) Certain Hazardous Substances

Table 1. Certain Hazardous Substances

	Certain Hazardous Substances	Maximum concentration value
1	Lead (Pb)/Lead Compounds	1,000ppm
2	Mercury (Hg)/Mercury Compounds	1,000ppm
3	Cadmium (Cd)/Cadmium Compounds	100ppm
4	Hexavalent Chromium Compounds(Cr(VI))	1,000ppm

5	Polybrominated Biphenyls (PBBs)	1,000ppm
6	Polybrominated Diphenyl Ethers (PBDEs)	1,000ppm

5.2 Chemical composition analysis investigation

Chemical component analysis investigation might be required about the Certain Hazardous Substances.

6.0 Chemical substance investigation

The materials of investigation and management are investigated by using "Chemical Substance Investigation Form" to detailed information, such as existence of the content, content, the content part, and the content purpose, etc. in order to know the contained use prohibition chemical and its quantity.

Moreover, when it is necessary, a similar investigation is conducted about the use of the certain hazardous substances of the products in the manufacturing process.

The example of filling in form about the content of the chemical substance is written to the "Chemical Substance Investigation Form (04-00107)."

7.0 Submission of the Certificate of Chemical Substance Nonuse

About the product supplied to Miki Pulley Group, the supplier needs to investigate the content of the certain hazardous substances, and in order to certify that there is no use of the prohibition substance, please submit "Certificate of Chemical Substances Nonuse in Products".

The nonuse guarantee of the certain hazardous substances is shown by entering ✓ mark to each products specified in "Certificate of Chemical Substances Nonuse in Products" on the applicable column.

8.0 Observance of the statutes, regulations and other requirements

Miki Pulley Group observes the statutes and regulations, gives priority to the specified customer requirements over this procurement standard, and observes their requirements.

The product supplied to Miki Pulley Group also strictly requires conforming to the statutes and regulations.

9.0 Review and revision

(1) Review and revision

This standard is regularly reviewed once a year and/or at any time.

(2) Revised edition management

This standard is revised when changing the standard of management of the chemical substance.

(Additional clause)

1. Revised date

The standard was revised to version 3.0 on 3 Mar. 2008.

2. Entry into force

The standard came into force on 3 Mar. 2008.

Table 2. Materials for investigation and management

	Type		Example
Materials for investigation and management	Product component materials & sub-materials	Product component materials (Materials used as part of products)	Raw materials, parts, epoxy resin, solder, flux, rust-inhibiting oils, rust inhibitors, adhesives, diluents, inks, paints, model labels, greases, screw locks, etc.
		Sub-materials always packed together with products (Sub-materials incorporated in parts list)	Packing materials, identifying labels, returnable boxes, plastic bags, paints, operating manuals
	Sub-materials used to transport or protect	Sub-materials used to transport or protect products (Sub-materials not incorporated in parts list)	Collective packing materials, packing tapes, cushioning materials, Scotch tape, PP-bands, PP-band clamps, sealing needles
	Activities for production	Sub-materials likely to adhere directly to products (Sub-materials used in the machining/assembly of products/parts or used in equipment maintenance, and the work environment.)	Cutting oils, cutting liquids, cleaning liquids, rust-inhibiting oils, separating materials, mold-release agents, plating solutions, solvents, oil mist (released into the air), etc.
Materials of non-management	Others	Commodities relatively unlikely to adhere to products (Commodities used in the work environment, equipment, etc., at the time of machining/assembly of products/parts)	Equipment, tools, measuring instruments, cutting tools, chips (blades), carts, parts boxes, storage containers, cotton swabs, brushes, containers, part storage bags

(Form-A)

Date: _____

Certificate of Chemical Substances Nonuse in Products (and Confirmation of The Chemical Substances Use)

We hereby warrant that the Certain Hazardous Substances in Table 1 is not contained in the product specified in the following supplied to Miki Pulley Group.

We also warrant that the product conforms to a statute and regulation.

(Please refer to “Table 6 Reference” of Miki Pulley Group procurement standard for the example of the chemical substance with the law that should be observed.)

Table 1. Certain Hazardous Substances

	Certain Hazardous Substances	Maximum concentration value
1	Lead(Pb)/Lead Compounds	1,000ppm
2	Mercury(Hg)/Mercury Compounds	1,000ppm
3	Cadmium(Cd)/Cadmium Compounds	100ppm
4	Hexavalent Chromium Compounds(Cr(VI))	1,000ppm
5	Polybrominated Biphenyls(PBBs)	1,000ppm
6	Polybrominated Diphenyl Ethers(PBDEs)	1,000ppm

(It is judged non-content when the chemical substance is not intentionally used and the content of impurities in a homogeneous material is below the maximum concentration value.)

Product for investigation		Confirmation of nonuse-guaranteed (Please enter <input checked="" type="checkbox"/> mark in the applicable column)		In the case of Non-guaranteed	Remarks
Product No.	Product Name	Guaranteed (non-containing)	Non-guaranteed (containing)	Time of Substitution If substitution is planned for	

Signature : _____

Person in charge : _____

Division : _____

Company Name : _____

[Chemical Substance Investigation Form]

1. [Company information]

Information	Date;
	Company Name;
	Address;
	Division;
	Person in charge;
	Telephone No.;
FAX No.;	

2. [Product for investigation] (Judgment of containing: Containing=Y, Non-containing=N)

Product number	Product name	Maker (Supplier) name	Material	unit (pcs, Kg, g, etc.)	Gross weight at the investigation	Judgment of content (Y/N)
		Type (part number)	Process			
					(g)	

3. [Chemical substance for investigation]

No.	Material and a chemical substance group	Maximum concentration value
1	Lead(Pb)/Lead Compounds	1,000ppm
2	Mercury(Hg)/Mercury Compounds	1,000ppm
3	Cadmium(Cd)/Cadmium Compounds	100ppm
4	Hexavalent Chromium Compounds(Cr(VI))	1,000ppm
5	Polybrominated Biphenyls(PBBs)	1,000ppm
6	Polybrominated Diphenyl Ethers(PBDEs)	1,000ppm

4. [Content chemical substance information—Judgment of containing]

No.	Material and a chemical substance group	Judgment of containing exist exceeding the maximum concentration value? (Please enter <input checked="" type="checkbox"/> mark in the applicable column)		In the case of containing Total content of material and chemical substance(g)	In the case of containing Detailed information on material and chemical substance (A substance name, the purpose of use, a use part, content rate, etc.)
		Containing	Non-containing		
1	Lead(Pb)/Lead Compounds				
2	Mercury(Hg)/Mercury Compounds				
3	Cadmium(Cd)/Cadmium Compounds				
4	Hexavalent Chromium Compounds (Cr(VI))				
5	Polybrominated Biphenyls(PBBs)				
6	Polybrominated Diphenyl Ethers(PBDEs)				

(It is judged non-content when the chemical substance is not intentionally used and the content of impurities in a homogeneous material is below the maximum concentration value.)

04-00107 B-02

Table 3. Key Legal and Regulatory Information

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No.	Substance	Key Legal and Regulatory Information	Example of Use
1	Lead and Lead Compounds	76/769/EEC, Marketing and Use of Dangerous Substances and amendments: (86/677/EEC,91/157/EEC,93/86/EEC); 2000/53/EC (EU/ELV); 2002/95/EC (EU/RoHS Directive and its amendments), China Management Measures on EIP Pollution Control, 94/62/EEC(EU Packing and Packing Waste), California Electronic Waste Recycling Act SB20, amended by SB 50 and Ab 575, Revised law for Promotion of Effective Utilization of resources (J-Moss)	Rubber hardener, pigment, paint, lubricant, plastic stabilizer, materials for battery, free-machining alloy, free-cutting steels, optical materials, X-ray shielding in CRT glass, electrical solder material, mechanical solder materials, curing agent, vulcanizing agent, ferroelectrics, resin stabilizer, plating, metal alloy, resin additives
2	Mercury and Mercury Compounds	76/769/EEC, Marketing and Use of Dangerous Substances and amendments : (86/677/EEC,91/157/EEC, +98/101/EEC); 2000/53/EC(EU/ELV directive)、 2002/95/EC(EU/RoHS Directive and its amendments); 94/62/EEC(EU Packing and Packing Waste); China Management Measures on EIP Pollution Control; California Electronic Waste Recycling Act SB20, amended by SB 50 and AB 575, Revised law for Promotion of Effective Utilization of resources (J-Moss)	Fluorescent bulb, contact point material, pigment, anti-corrosion, switches, high-efficiency phosphor, antibacterial treatment
3	Cadmium and Cadmium Compounds	76/769/EEC, Marketing and Use of Dangerous Substances and amendments; (91/338/EEC,91/157/EEC,93/86/EEC); 2000/53/EC(EU/ELV Directive); China Management Measures on EIP Pollution Control; California Electronic Waste Recycling Act SB20, amended by SB 50 and Ab 575, Revised law for Promotion of Effective Utilization of resources (J-Moss)	Pigment, anti-corrosion surface treatment, electric and electronic materials, optical material, stabilizer, plating, pigment for resin, fluorescent, electrode, solder, electric contact, contact point, zinc plating, stabilizer for PVC
4	Hexavalent Chromium /Hexavalent Chromium Compounds	2000/53/EC(EU/ELV Directive)、 2002/95/EC(EU/RoHS Directive and its amendments)、 94/62/EEC(EU Packing and Packing Waste), China Management Measures on EIP Pollution Control; California Electronic Waste Recycling Act SB20, amended by SB 50 and AB 575, Revised law for Promotion of Effective Utilization of resources (J-Moss)	Pigment, paint, ink, catalyst, plating, anti-corrosion surface treatment, dye, paint dryer, surface treatment, chromate treatment, paints adhesion enhancement
5	Polybrominated Biphenyls (PBBs)	2002/95/EC(EU/RoHS Directive and its amendments), Canada SOR/2003-99,Prohibition of certain Toxic Substances Regulation 2003; China Management Measures on EIP Pollution Control; 76/769/EEC, Marketing and Use of Dangerous Substances and amended by83/264/EEC; Revised law for Promotion of Effective Utilization of resources (J-Moss)	Flame retardant
6	Polybrominated Diphenyl ethers (PBDEs)	2002/95/EC(EU/RoHS Directive and its amendments), China Management Measures on EIP Pollution Control; 76/769/EEC, Marketing and Use of Dangerous Substances and amendments; (2003/11/EEC for Penta BDE, Octa BDE) , US Law (Hawaii, Maine for penta BDE and octaBDE); Revised law for Promotion of Effective Utilization of resources (J-Moss)	Flame retardant

(Note) Table 3. refers to 「Annex A Level A materials and substances of JIG(Joint Industry Guide)」.

Table 4. Detailed Chemical lists with CAS-numbers

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	Substance	Chemical Formula	Content rate	CAS No.
1	Lead	Pb	1.000	7439-92-1
	Lead(II) sulfate	PbSO ₄	0.683	7446-14-2
	Lead(II) carbonate	PbCO ₃	0.775	598-63-0
	Lead hydroxycarbonate	2PbCO ₃ ·Pb(OH) ₂	0.801	1319-46-6
	Lead acetate	Pb(CH ₃ COO) ₂ ·3H ₂ O	0.637	301-04-2
	Lead(II) acetate, trihydrate	Pb(CH ₃ COO) ₂ ·3H ₂ O	0.546	6080-56-4
	Lead phosphate	Pb ₃ (PO ₄) ₂	0.766	7446-27-7
	Lead selenide	PbSe	0.724	12069-00-0
	Lead(IV) oxide	PbO ₂	0.866	1309-60-0
	Lead(II,IV) oxide	Pb ₃ O ₄	0.907	1314-41-6
	Lead(II) sulfide	PbS	0.866	1314-87-0
	Lead(II) oxide	PbO	0.928	1317-36-8
	Lead(II) carbonate basic	2PbCO ₃ ·Pb(OH) ₂	0.801	1319-46-6
	Lead hydroxycarbonate	2PbCO ₃ ·Pb(OH) ₂	0.801	1344-36-1
	Lead(II) phosphate	Pb ₃ (PO ₄) ₂	0.766	7446-27-7
	Lead(II) chromate	PbCrO ₄	0.641	7758-97-6
	Lead(II) titanate	PbTiO ₃	0.686	12060-00-3
	Lead sulfate,sulphuric acid, lead salt	Pb ₂ SO ₄	1.000	15739-80-7
	Lead sulphate,tribasic	PbSO ₄ ·H ₂ O	0.850	12202-17-4
	Lead stearate	Pb(C ₁₇ H ₃₅ COO) ₂	0.268	1072-35-1
Other lead compounds	-	-	-	
2	Mercury	Hg	1.000	7439-97-6
	Mercuric chloride	HgCl ₂	-	33631-63-9
	Mercury(II) chloride	HgCl ₂	0.739	7487-94-7
	Mercuric sulfate	HgSO ₄	0.676	7783-35-9
	Mercuric nitrate	Hg(NO ₃) ₂	0.618	10045-94-0
	Mercury(II) oxide	HgO	0.926	21908-53-2
	Mercuric sulfide	HgS	0.862	1344-48-5
	Other mercury compounds	-	-	-
3	Cadmium	Cd	1.000	7440-43-9
	Cadmium oxide	CdO	0.875	1306-19-0
	Cadmium sulfide	CdS	0.778	1306-23-6
	Cadmium chloride	CdCl ₂	0.613	10108-64-2
	Cadmium sulfate	CdSO ₄	0.539	10124-36-4
	Other cadmium compounds	-	-	-
4	Chromium(VI) oxide	CrO ₃	0.52	1333-82-0
	Barium chromate	BaCrO ₄	0.205	10294-40-3
	Calcium chromate	CaCrO ₄	0.333	13765-19-0
	Chromium(VI) trioxide	CrO ₃	0.52	1333-82-0
	Lead(II) chromate	PbCrO ₄	0.161	7758-97-6
	Sodium chromate	Na ₂ CrO ₄	0.321	7775-11-3
	Sodium dichromate	Na ₂ Cr ₂ O ₇	0.397	10588-01-9
	Strontium chromate	SrCrO ₄	0.255	7789-06-2
	Potassium dichromate	K ₂ Cr ₂ O ₇	0.353	7778-50-9
	Potassium chromate	K ₂ CrO ₄	0.268	7789-00-6
	Zinc chromate	ZnCrO ₄	0.287	13530-65-9
	Other hexavalent chromium compounds	-	-	-
5 & 6	Bromobiphenyl and its ethers	-	-	2053-07-5(2-bromobiphenyl) 2113-57-7(3-bromobiphenyl) 92-66-0(4-bromobiphenyl) 101-55-3(ethers)
	Decabromobiphenyl and its ethers	-	-	13654-9-6 1163-19-5(ethers)
	Dibromobiphenyl and its ethers	-	-	92-86-4 2050-47-7(ethers)
	Heptabromobiphenylether	C ₁₂ H ₉ Br ₇	-	68928-80-3
	Hexabromobiphenyl and its ethers	-	-	59080-40-9 36355-01-8(hexabromo-1,1-biphenyl)
	Nonabromobiphenyl ether	C ₁₂ H ₇ Br ₉	-	63936-56-1
	Octabromobiphenyl and its ethers	C ₁₂ H ₇ OBr ₈	-	61288-13-9 32536-52-0(1-7yl)
	Pentabromobiphenyl ether (note:Commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides.	-	-	32534-81-9 (CAS number used for commercial grades of PeBDPO)
	Polybrominated biphenyls	C ₁₂ H _x Br _(10-x)	-	59536-65-1
	Tetrabromobiphenyl and its ethers	-	-	40088-45-7 40088-47-9(ethers)
Tribromobiphenyl ether	-	-	49690-94-0	

(Note) Table 4. refers to 「Annex A Level A materials and substances of JIG(Joint Industry Guide)」.

Table 5. Exemptions

The exemptions conforms to the one announced officially at any time as European Commission decision of the RoHS directive.

Table 5. Exemptions

No.	Exemptions (The RoHS Regulation do not apply; -)	Substance	Issued date
1	Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.	Mercury (Hg)	27/1/2003
2	Mercury in straight fluorescent lamps for general purposes not exceeding: <ul style="list-style-type: none"> • halophosphate 10 mg • triphosphate with normal lifetime 5 mg • triphosphate with long lifetime 8 mg 	Mercury (Hg)	27/1/2003
3	Mercury in straight fluorescent lamps for special purposes.	Mercury (Hg)	27/1/2003
4	Mercury in other lamps not specifically mentioned in this Annex.	Mercury (Hg)	27/1/2003
5	Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.	Lead (Pb)	27/1/2003
6	Lead as an alloying element in steel containing up to 0.35 % lead by weight, Aluminium containing up to 0.4 % lead by weight and As a copper alloy containing up to 4 % lead by weight.	Lead (Pb)	27/1/2003
7	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead), Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, Signaling, transmission as well as network management for telecommunications, Lead in electronic ceramic parts (e.g. piezoelectronic devices)	Lead (Pb)	27/1/2003 25/10/2005
8	Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC amending Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations.	Cadmium (Cd)	27/1/2003 25/10/2005
9	Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators. a. -Deletion- (1/4/2008) b. Lead in lead-bronze bearing shells and bushes.	Cr(VI) Lead (Pb)	27/1/2003 25/10/2005
10	-Omission-	—	27/1/2003
11	Lead used in compliant pin connector systems.	Lead (Pb)	25/10/2005
12	Lead as a coating material for the thermal conduction module c-ring.	Lead (Pb)	25/10/2005
13	Lead and cadmium in optical and filter glass.	Lead (Pb) Cadmium (Cd)	25/10/2005
14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight.	Lead (Pb)	25/10/2005
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip.	Lead (Pb)	25/10/2005
16	Lead in linear incandescent lamps with silicate coated tubes.	Lead (Pb)	28/4/2006
17	Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications.	Lead (Pb)	28/4/2006
18	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamp when used as sun tanning lamps containing phosphors such as BSP (BaSi ₂ O ₅ :Pb) as well as when used as speciality lamps for diazo-printing reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS((Sr,Ba) ₂ MgSi ₂ O ₇ :Pb).	Lead (Pb)	28/4/2006
19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam with PbSn-Hg as auxiliary amalgam in very compact Energy Saving Lamps (ESL)	Lead (Pb)	28/4/2006
20	Lead oxide in glass used for bonding front and rear substances of flat fluorescent lamps used for Liquid Crystal Displays (LCD)	Lead (Pb)	28/4/2006
21	Lead and cadmium in printing inks for the application of enamels on borosilicate glass.	Lead (Pb) Cadmium (Cd)	14/10/2006
22	Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communications systems.	Lead (Pb)	14/10/2006
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with Ni-Fe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames.	Lead (Pb)	14/10/2006
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors.	Lead (Pb)	14/10/2006
25	Lead oxide in plasma display panels (PDP) and surface conduction electron emitter display (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes.	Lead (Pb)	14/10/2006
26	Lead oxide in the glass envelope of Black Light Blue (BLB) lamps.	Lead (Pb)	14/10/2006
27	Lead alloys as solder for transducers used in high-powered (designed to operate for several hours at acoustic power levelsof 125db SPL and above) loudspeakers.	Lead (Pb)	14/10/2006
28	-Deletion-	Cr(VI)	14/10/2006 (Deletion: 12/10/2007)
29	Lead bound in crystal glass as defined in Annex I (Categories 1,2,3 and 4) of Council Directive 69/493/EEC.	Lead (Pb)	14/10/2006

Table 6. Reference (Key Legal and Regulatory Information of The Other Substances)

Table 6. Key Legal and Regulatory Information of The Other Substances

No.	Substance	Key Legal and Regulatory Information	Example of Use
7	Asbestos	76/769/EEC, Marketing and Use of Dangerous Substances and amendments: (83/478/EEC; 85/610/EEC; 87/217/EEC; 91/659/EEC; 99/77/EEC), United States: Toxic Substances Control Act (restricts new uses); Switzerland Ordinance on the reduction of risks linked to chemical products (ORRChim), Industrial Safety and Health Law (Japanese law)	Brake lining pad, insulator, filler, abrasive, pigment, paint, talc, adiabatic material
8	Certain azo colourants and azo dyes (which from certain aromatic amines) in textile and leather applications only	76/769/EEC, Marketing and Use of Dangerous Substances and amendments: (2002/61/EC; 2003/03/EC)	Pigment, dyes, colorants
9	Ozone Depleting Substances	Law Concerning the Protection of the Ozone Layer through the Control of Specified substances and others (Japanese law), Montreal Protocol, 1990 revision of Article 611 of the Clean Air Act (US law); Regulation (EC) No.2037/2000 on substances that deplete the ozone layer, 76/769/EEC Marketing and Use of Dangerous Substances and amendments: (94/60/EEC; 97/64/EEC)	Refrigerant, foaming agent, extinguishant, solvent cleaner
10	Polychlorinated Biphenyls (PCBs)	The Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Class 1 chemical substances: Japanese Law), 76/769/EEC, Marketing and Use of Dangerous Substances	Insulation oil, lubricant oil, electrical insulation medium solvent, electrolytic solution; Plasticizers, fire retardants, coatings for electrical wire and cable, dielectric sealants
11	Polychlorinated Naphthalenes (Cl =>3)	The Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Class 1 chemical substances: Japanese Law)	Lubricant, paint, stabilizer (electric characteristic, flame-resistant, water-resistant) insulator, flame retardant
12	Radioactive Substances	U.S. Nuclear Regulatory Commission Title 10 CFR Part 20 (Annex C). Laws for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors, 1986 (Japanese Law)	Optical properties (thorium), measuring devices, gauges, detector
13	Certain Short Chain Chlorinated Paraffins (C10-C13)	76/769/EEC Marketing and Use of Dangerous Substances and amendments (+2002/45/EC)	Plasticizer for PVC, flame retardant
14	Certain Tributyl Tins (TBT) & Triphenyl Tins (TPT) compounds	The Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Class 2 chemical substances: Japanese Law)	Stabilizer, antioxidant, antibacterial and antifungal agents, antifoulant, antiseptic, anti-fungal agent, paint, pigment, antistaining
15	Tributyl Tin Oxide (TBTO)	The Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances (Class 1 chemical substances: Japanese Law)	Antiseptic, antifungal agent, paint, pigment, antistaining, refrigerant, foaming agent, extinguishant, solvent cleaner