



Green Procurement Standards (13th Edition) (Appendices)



Revised (13th Edition):

January 31, 2018

TOKIN Corporation

Table of Contents

- 1.--- Substances Banned for Use in Manufacturing Processes
 - Substances Banned for Use in Manufacturing Processes
- 2.--- Environmentally hazardous substances contained in products
 - Substances Banned for Containment in Products
 - Conditionally Containment-prohibited Substances in Products
 - Containment-prohibited Substances in Specific Products
 - Containment-controlled Substances in Products
- 3.--- Control and Information Provision of Substances of Very High Concern (SVHC) of the EU REACH Regulation
 - [Attachment 1] Detailed Substance List
 - [Attachment 2] Analysis Standards for RoHS Directive Substances
 - [Attachment 3] Cautionary Materials List
 - [Attachment 4] Example of Parts

Revision History:

These Appendices (6th Edition) were revised to be consistent with TOKIN Green Procurement Standards (6th Edition). (May 13, 2010).

These Appendices (7th Edition) were revised to be consistent with TOKIN Green Procurement Standards (7th Edition). (July 1, 2011).

These Appendices (8th Edition) were revised to be consistent with TOKIN Green Procurement Standards (8th Edition). (July 2, 2012).

These Appendices (9th Edition) were revised to be consistent with TOKIN Green Procurement Standards (9th Edition). (July 1, 2013).

These Appendices (10th Edition) were revised to be consistent with TOKIN Green Procurement Standards (10th Edition). (July 1, 2014)

These Appendices (11th Edition) were revised to be consistent with TOKIN Green Procurement Standards (11th Edition). (August 25, 2015)

These Appendices (12th Edition) were revised to be consistent with TOKIN Green Procurement Standards (12th Edition). (December 27, 2016)

These Appendices (12.1th Edition) were revised to be consistent with TOKIN Green Procurement Standards (12.1th Edition). (July 07, 2017)

[These Appendices \(13th Edition\) were revised to be consistent with TOKIN Green Procurement Standards \(13th Edition\). \(January 31, 2018\)](#)

1. Environmentally Hazardous Substances which are Prohibited from Being Used in Manufacturing processes (Does not apply if there is no manufacturing process, such as companies that provide software services, etc.)

Refers to environmentally hazardous substances that TOKIN prohibits for use in the manufacturing process due to the restrictions by law, regulations, etc. In principle, TOKIN does not purchase goods from any supplier who uses such substances in the manufacturing of any of its products. (Prerequisite)

*Does not apply to refrigerant and/or fire extinguishing equipment.

For details, refer to “Table 1: Substances Banned for Use in Manufacturing Processes.”

[Table 1] Substances Banned for Use in Manufacturing Processes

No.	JGPSSI represented substance classification No.	Substance Name	Applicable Law, Etc.
1	C04097 C044099 C04097 C04099	CFCs (Note 1)	Ozone Layer Protection Law (Montreal Protocol)
2	C04098	Specified halons (Note 1)	Same as above
3	C04100	Carbon tetrachloride CAS_No.56-23-5	Same as above (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
4	C04101	1,1,1-trichloroethane CAS_No.71-55-6	Same as above (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
5	C04104	HBFCs (Note 1)	Same as above
6	C04105	HCFCs (Note 1)	Limited by TOKIN's customers
7	C04103	Methyl bromide CAS_No.74-83-9	Ozone Layer Protection Law (Montreal Protocol)
8	C02661	Bromochloromethane CAS_No.74-97-5	Ozone Layer Protection Law (Montreal Protocol)
9	-	1,2-dichloroethane CAS_No.107-06-2	Limited by TOKIN's customers (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
10	-	1,1-dichloroethylene CAS_No.75-35-4	Limited by TOKIN's customers (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
11	-	Cis-1,2-dichloroethylene CAS_156-59-2	Limited by TOKIN's customers (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
12	-	1,3-dichloropropane CAS_No.542-75-6	Limited by TOKIN's customers (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
13	-	Methylene chloride (dichloromethane) CAS_No.75-09-2	Limited by TOKIN's customers (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
14	-	Tetrachloroethylene CAS_No.127-18-4	Limited by TOKIN's customers (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
15	-	1,1,2-trichloroethane	Limited by TOKIN's customers

		CAS_No.79-00-5	(Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
16	-	Trichloroethylene CAS_No.79-01-6	Limited by TOKIN's customers (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)
17	-	Benzene CAS_No.71-43-2	Limited by TOKIN's customers (Type 1 specific toxic substance of the Soil Contamination Countermeasures Act)

2. Environmental Impact Substances Contained in Products

Environmentally hazardous substances which are contained in manufactured goods (see Note 1) should be controlled according to the following classifications ① to ③.

- ① **【Table2】 「Substances Banned for Containment in Products」 list and 【Table3】 「Conditionally Containment-prohibited Substances in Products」 list** (Prerequisite)
- ② **【Table4】 「Containment-prohibited Substances in Specific Products」** (Request conformity certificate etc, as necessary)
- ③ **【Table5】 「Containment-controlled Substances in Products」** (If you intentionally use it, please report it)

Designation of environmentally hazardous substances is given in Tables 2 to 5.

Substance banned for use in manufactured goods by domestic/overseas laws and regulations and/or TOKIN voluntary regulations. In principle, TOKIN does not purchase products that contain banned substances.

【Table 2】 Substances Banned for Containment in Products

No.	JGP SSI class	Substance class (name)	Regulated application	Regulated value (threshold level)	Main use (Applicable Law, etc)
1	C01	Asbestos (Note 1)	All applications	Not intentionally contained	Insulator, filling material (Toxic substances, etc. Prohibited from use in the Manufacturing process by Article 16 of the Industrial Safety and Health Act Enforcement Order)
2		Yellow phosphorus match (yellow (white) phosphorus) CAS_No.12185-10-3			Fuel, explosive (same as above)
3		Benzidine and its chlorides CAS_No.92-87-5			Dye (same as above)
4		4-aminodiphenyl and its chlorides CAS_No.92-67-1			Dye, analysis reagent (same as above)
5		4-nitrodiphenyl and its chlorides			Dye, analysis reagent (same as above)

		CAS_No.92-93-3			
6		Bis (chloromethyl) ether CAS_No.542-88-1		Not intentionally contained	Dye, analysis reagent (same as above)
7		Beta-naphthylamine and its chlorides CAS_No.91-59-8			Dye, analysis reagent (same as above)
8		Rubber cement containing benzene (benzene)			Rubber cement (same as above)
9	C04	Ozone-depleting substances (Montreal Protocol substances Group I & II) (Note 1)	All applications except refrigerant		Cleaning agent, refrigerant (Ozone Layer Protection Law (Montreal Protocol))
10	B05	Polyhalogenated biphenyl, polychlorinated terphenyl (PCB, PCT)	All applications		Insulation oil, lubrication oil, oil for condensers (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
11	B06	Polychlorinated naphthalenes (PCN) (chlorine count of 1 or more)			Lubrication oil, coating material (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
12		Hexachlorobenzene CAS_No.118-74-1			Raw material for organic synthesis (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
13		Aldrin CAS_No.309-00-2			Agriculture chemicals, antiseptic agent, insecticide, antimold, coating (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
14		Dieldrin CAS_No.60-57-1		Not intentionally contained	Agriculture chemicals, antiseptic agent, insecticide, antimold, coating (Type 1 of the Law Concerning the Examination and Regulation of

			All applications		Manufacturer, etc. of Chemical Substances)
15		Endrin CAS_No.72-20-8			Agriculture chemicals, antiseptic agent, insecticide, antimold, coating (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
16		DDTs CAS_No.789-02-6			Agriculture chemicals antiseptic agent, insecticide, antimold, coating (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
17		Chlordane			Agriculture chemicals, antiseptic agent, insecticide, adhesive, coating (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
18	A17	Tributyltin oxide (TBTO) CAS No.56-35-9			Antiseptic agent, coating, pigment, etc. (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances) REACH/SVHC substance
19	A28	Tri-substituted organostannic compounds (containing tributyltin (TBT) compounds and triphenyltin (TPT) compounds)			Antiseptic agent, coating, pigment, etc. (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
20		N-para-phenylene-Diamine (Note 1)			Rubber antioxidant, styrene-butadiene rubber (Type 1 of the Law Concerning the Examination and

					Regulation of Manufacturer, etc. of Chemical Substances)
21		2,4,6-tri-t-butyl phenol CAS_No. 732-26-3			Antioxidant, lubrication oil (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
22		Toxaphene CAS_No. 8001-35-2			Insecticide, insect repellent (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
23		Mirex CAS_No. 2385-85-5			Fire retardant, insecticide (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
24		Kelthane (dicofol) CAS_No. 115-32-2			Acaricide (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
25		Hexachlorobuta-1, 3-diene CAS_No. 87-68-3			Solvent (Type 1 of the Law Concerning the Examination and Regulation of Manufacturer, etc. of Chemical Substances)
26	C06	Radioactive materials			(JIG)
27	B09	Short Chain Chlorinated Paraffins (SCCPs) (C10-13)			Pigments, paints, ink, lubricant, and plasticizer (JIG) REACH/SVHC substance
28	C08	Specific benzotriazole 2-(2H-1,2,3-benzotriazole-4, 6-di-tert-butylphenol CAS_No.3846-71-7			adhesive, paint, printing ink, plastic, ink ribbon (ultraviolet absorber) (JIG)
29		Dimethyl fumarate (DMF)	All applications	Not intentionally contained And, less than 0.1ppm (※1)	Mold prevention medicine and desiccant, etc.(JIG guideline)

30		Perfluorooctanoic acid (PFOA)	All applications	Not intentionally contained	Important agent used when producing fluorocarbon polymer
31		Polycyclic aromatic hydrocarbons (PAHs)			tar, crude oil, contained in petroleum, rubber, plasticizer, color pigment for plastic, etc. REACH/SVHC substance
32		Hexabromocyclododecane (HBCDD and HBCD) and all main diastereoisomers			flame retardant REACH/SVHC substance
33		Tris(2-chloroethyl) phosphate (TCEP), Tris(2-chloro-1-methylethyl) phosphate (TCPP), Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	All applications	<ul style="list-style-type: none"> intentionally added 	flame retardant used in the Manufacturing of liquid unsaturated polyester resin, coating flux for backing fabric of textiles, compound in PVC, also used as a coating agent for cellulosic ester compounds
34	A20 A21	Arsenic and its compounds Arsenic pentoxide (CAS_No.1303-28-2) Arsenic (III) oxide (CAS_No.1327-53-3)	applications	1,000 ppm (or 0.1wt% or more of phthalate compound in homogenous material	REACH/SVHC substance
35		N-Phenyl-benzenamine reaction products with styrene and 2,4,4-trimethylpentene (BNST)	All applications	Not intentionally contained	
36		Some azo dye and pigments (colorants) that produce specified amines	All applications	Not intentionally contained	REACH/SVHC substance

For details, refer to "Attachment 1: Detailed Substance List."

Note 1: If it can be confirmed the substances concerned were not used intentionally by tracing back to the supply chain, it is unnecessary to chemically analyze and confirm the non-use of these substances.

Conditionally Containment-prohibited Substances in Products

These are substance that TOKIN prohibits intentional use of or containment in excess of limit values
TOKIN Corporation

(threshold level [*]) or any combination for both substances and their applications.

*: Refers to maximum or minimum numerical value for determination.

For details, refer to “Table 3: Conditional Containment-Prohibited Substances in Products.”

[Table 3] Conditionally Containment-prohibited Substances in Products

Six Substances in the RoHS Directive (No.37~46)

No.	JGP SSI class	Substance class (name)	Regulated application	Threshold level	Main use
37	A05	Cadmium and its compounds RoHS substance	All applications other than those listed below	100 ppm / not intentionally contained	Pigment, alkaline battery, chemical synthesis raw material, semiconductor, paint, ink, plating, vinyl chloride stabilizer
			Stabilizers, pigments, dyes (electrical wiring insulation, plastic casing for electronic components, bundling bands, labels, etc.) Used for plastic materials (including rubber), paint, pigments, ink, surface treatment (electroplating, electroless plating, etc.), coating	5 ppm / not intentionally contained	
			Plating (excluding electrical contact plating for ensuring reliability)	Not intentionally contained	
			Fluorescent lighting	Not intentionally contained	
			Solder	20 ppm	
			Packaging materials (pursuant to the EU packaging materials directive 94/62/EC)	(Note 2) 100 ppm	
			Batteries (pursuant to the EU batteries directive 2013/56/EU)	0.002 wt%	
			Products or parts made of metal containing zinc (brass, die-casting zinc, etc.)	100 ppm	
38	A09	Lead and its compounds RoHS substance	All applications other than those listed below	1,000 ppm / not intentionally contained	Lead contained in alloys, pigment, coating, coloring, vulcanization accelerator, solid lubricant, vinyl chloride stabilizer, plastic stabilizer, ink
			Additives in plastic or resin (stabilizer and colorant), coating, pigment, and ink	100 ppm	
			Steel products	0.35 wt%	
			Aluminum base alloy	0.4 wt%	
			Copper base alloy	4 wt%	
			Solder (solder bars, wire solder, soldering paste)	500 ppm	
			Mounting solder and surface treatment for external electric terminals and leads	800 ppm	
			Lead in plating film (electroless nickel, electroless gold, tin)	1,000 ppm	
			Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Not intentionally contained	

			Lead used in other than C-press compliant connector systems	Not intentionally contained	
			Packaging materials (in accordance with EU packaging materials directive 94/62/EC)	(Note 2) 100 ppm	
			Batteries (in accordance with EU batteries directive 2013/56/EU)	0.004 wt%	
			High melting point solder used for connections inside electronic parts (containing lead at 85% or above)	Exempt	
			Glass used inside electronic parts (including glass material contained in conductive paste)	Exempt	
			Parts of electronic ceramics (piezoelectric elements, dielectrics, etc.)	Exempt	
39	A10	mercury and its compounds RoHS substance	All applications other than those listed below (in accordance with ELV and RoHS directives)	1,000 ppm / not intentionally contained	Dry-cell battery, Metal etching Mercury battery
			Packaging materials (in accordance with EU packaging materials directive 94/62/EC)	(Note 2) 100 ppm	
			Batteries (however, complying with the EU batteries directive 2013/56/EU)	0.0005 wt%	
			Small fluorescent lamps (the mercury content must be 2.5mg or less per lamp)	Exempt	
			Fluorescent striplighting (the mercury content must be 3mg or less per lamp)	Exempt	
			Fluorescent lamps other than small or striplighting	Exempt	
40	A07	Hexavalent chromium compounds RoHS substance	All applications other than listed below (in accordance with ELV and RoHS directives)	1,000 ppm / not intentionally contained	Photograph, pigment, catalytic agent, plating, ink, coating, battery
			Packaging materials (in accordance with the EU packaging materials directive 94/62/EC)	(Note 2) 100 ppm	
41	B02	PBBs (Note 1) RoHS substance	All applications	1,000 ppm / not intentionally contained	Plastic fire retardant
42	B03	PBDEs (Note 1) (Includes DecaBDE) RoHS substance	All applications	1,000 ppm / not intentionally contained	Plastic fire retardant
43	C09	Specific phthalate compounds (amount contained must be declared if contained)			
		Phthalate bis (2-ethylhexyl) (DEHP [DOP]) CAS_No.117-81-7	All except the below Paste for piezoelectric ceramics	• intentionally added 1,000 ppm (or	Plasticizer REACH/SVHC specified substance RoHS/substance*

44		Di-n-butyl phthalate (DBP) CAS_No.84-74-2	All material etc. to be delivered after July 1, 2016	0.1wt% or more of phthalate compound in homogenous material	Plasticizer REACH/SVHC specified substance RoHS/substance*
45	Butyl benzyl phthalate (BBP) CAS_No.85-68-7	Plasticizer REACH/SVHC specified substance RoHS/substance*			
46	Diisobutyl phthalate (DIBP) CAS No. 84-69-5	Plasticizer REACH/SVHC specified substance RoHS/substance*			
47		Diisononyl phthalate (DINP)	Limited to use in toys and commodities for children	<ul style="list-style-type: none"> intentionally added 1,000 ppm (or 0.1wt% or more of phthalate compound in homogenous material) 	Plasticizer
48		Diisodecyl phthalate (DIDP)			Plasticizer
49		Di-n-octyl phthalate (DNOP)			Plasticizer
50	C07	Formaldehyde CAS_No.50-00-0	Limited to wooden products using fiber board, particle board or plywood	Not intentionally contained	Speaker, rack, etc. (Limited by TOKIN's customers)
51	B13	Perfluorooctane sulfonate (PFOS) and its salts CAS_No.2795-39-3	Does not apply to any except the following: *Film, paper, photograph coating material used for printing *Photoresist for photolithography process and coating material for preventing reflection	Not intentionally contained / 0.1 wt% in material and 1µg/m ² in coated material	
52		Cobalt chloride CAS_No.7646-79-9 (Anhydride)	Limited to containment as indicator for desiccant	Not intentionally contained	Indicator for desiccant (Limited by TOKIN's customers) REACH/SVHC specified substance
53		Natural rubber	Used if toys, commodities for children and products that come in direct contact with the human body	Not intentionally contained	(Limited by TOKIN's customers)
54	B07	Polyvinyl chloride (PVC), PVC mixture and its copolymers	(1) Packaging / wrapping material	intentionally added 1,000 ppm (or 0.1wt% or more of PVC in homogenous material)	Packaging / wrapping material (Limited by TOKIN's customers)

			(2) Limited to bands for tying connection cords. etc. (3) Limited to heat-shrinkable tubing	Not intentionally contained	(Limited by TOKIN's customers)
			Limited to other application for power cord, sheets, insulating plates, vinyl wiring for internal wiring	Not applicable (If contained, be sure to report the amount.	(Limited by TOKIN's customers)
55		Hydrofluorocarbons (HFC) and perfluorocarbons (PFC)	All applications excluding those that do not have an alternative due to a special use	Not intentionally contained	(Limited by TOKIN's customers)
56	A23	Dibutyltin (DBT) compounds	All applications such as additives to plastics (excluding those below)	1,000 ppm (0.1 wt%) of tin in material	
			RTV-1/RTV-2 sealants, adhesives, catalysts of coating and coating agents, etc.	1,000 ppm (0.1 wt%) of tin in material	
			An additive to packing parts and materials used for parts and is re-used, and an additive agent to packing part materials (tray, magazine stick, stopper, reel, embossed carrier tape, etc.)	Exempt	
57	A24	Diocetyl tin (DOT) compounds	An additive to a fiber and cloth material	1,000 ppm (0.1 wt%) of tin in material	Does not apply to metallic tin, tin alloy, tin plating and inorganic tin.
58		Beryllium oxide and its compounds	Applies to all applications except beryllium copper	intentionally added 1,000 ppm (or 0.1wt% or more of PVC in homogenous material	(Limited by TOKIN's customers)
59		red phosphorus	Be limited to the flame retardants used in plastic resin However, Apply product from 7/1/2016	Not intentionally contained	(Limited by TOKIN's customers)
			Red phosphorus unit (metal)	Not eligible	

For details, refer to "Attachment 1: Detailed Substance List."

Note 2: Total content of heavy metals (lead, cadmium, mercury, hexavalent chromium) must be less than 100 ppm in ratio by weight for homogenous materials that make up packaging materials such as resin, ink, paint and cardboard.

Containment-prohibited Substances in Specific Products (TOKIN requires presentation as needed)

These are substance that TOKIN prohibits their intentional use and their containment in excess of the limit values (threshold values [*]) or any combination for both substances and their applications in components of specific products.

For details, refer to “Table 4 Containment-prohibited Substances in Specific Products”

* Boundary value used to determine a certain numeric value.

Submit Form 3-1 “Assurance that no banned substances are contained in products” along with the “Halogen-free Certificate of Compliance” (including analysis data (ICP)) and the “Certificate of Compliance for Free of Specified Chemical Substances” (including analysis data (ICP)) when requested by TOKIN.

[Table 4] Containment-prohibited Substances in Specific Products

No.	Substance class (name)	Regulated application	Threshold Values	Remarks
60	Brominated organic compounds	All applications	900 ppm	The total amount of Brominated organic compounds and Chlorinated organic compounds together must be less than 1,500 ppm in materials. 【Halogen-Free】 (as required by TOKIN's customers)
61	Chlorinated organic compounds	All applications	900 ppm	
62	Antimony trioxide	All applications	900 ppm	【Specified Chemical Substances-Free】 (as required by TOKIN's customers)

Containment-controlled Substances

Substance for which the usage mode is ascertained, and health, safe hygiene and proper disposal pertaining to the substance itself and its application is considered by TOKIN.

A containment-controlled substance refers not to those substances for which the intentional use or containment is regulated, but to those for which data pertaining to whether or not it is used and in what concentration it is used is to be ascertained.

Notably, the substances for which data is ascertained are those contained in a concentration exceeding 1,000 ppm or those that are intentionally used.

If containment-controlled substances are used intentionally, **chemSHERPA** forms must be filled in and reported to TOKIN.

For details, refer to “Table 5: Containment-controlled Substances”

[Table 5] Containment-controlled Substances

	JGP SSI class	Substance class (name)	Regulated application	Threshold Level	Main use
1	A01	Antimony and its compounds	All applications	0.1 wt% (1,000 ppm) of a product	Pigment, coating material, fire retardant, ink
2	A04	Bismuth and its compounds	All applications	0.1 wt% (1,000 ppm) of a product	Lead-free solder, terminal plating, alloy
3	A11	Nickel and its compounds	Long term indirect contact with human body	0.1 wt% (1,000 ppm) of a product	Case, plating
4	A13	Selenium and its compounds	All applications	0.1 wt% (1,000 ppm) of products	Semiconductor, pigment, coating material, catalyser, photo conductor, oxidizing agent
5	B08	Brominated flame retardants (other than PBB and PBDE) including tetra-bromobisphenol A	All applications	0.09% (900 ppm) of the total bromine in a laminate	Fire retardant
6		Bis(2-methoxyethyl) phthalate (DMEP) CAS_No. 117-82-8	All applications	0.1 wt% of a product (1,000 ppm)	
7		4,4'-isopropylidenediphenol. (Bisphenol A) CAS_No.80-05-7	All applications	0.1 wt% of a product (1,000 ppm)	
8		Alkylphenol (Carbon number: 5-9)	All applications	0.1 wt% of a product (1,000 ppm)	
9		2,4-dichlorophenol CAS_No.120-83-2	All applications	0.1 wt% of a product (1,000 ppm)	
10		Di(2-ethylhexyl)adipate CAS_No.103-23-1	All applications	0.1 wt% of a product (1,000 ppm)	
11		Benzophenone CAS_No.119-61-9	All applications	0.1 wt% of a product (1,000 ppm)	
12		Octachlorostyrene CAS_No.29082-74-4	All applications	0.1 wt% of a product (1,000 ppm)	

13	Tris(2-chloroethyl) phosphate (TCEP) CAS No. 115-96-8	All applications	0.1 wt% of a product (1,000 ppm)	
14	Hexabromocyclododecane (HBCDD)	All applications	0.1 wt% of a product (1,000 ppm)	
15	Boric acid Specific sodium borates	All applications	0.1 wt% of a product (1,000 ppm)	
16	1,2-benzenedicarboxylic acid, and di-C7-11-branched and linear alkyl esters (DHNUP)	All applications	0.1 wt% of a product (1,000 ppm)	
17	1,2-benzenedicarboxylic acid, and di-C6-8-branched alkyl esters, C7-rich (DIHP)	All applications	0.1 wt% of a product (1,000 ppm)	
18	Bis(2-methoxyethyl) ether CAS No. 111-96-6	All applications	0.1 wt% of a product (1,000 ppm)	
19	4-(1,1,3,3-tetramethylbutyl) phenol CAS_No.140-66-9	All applications	0.1 wt% of a product (1,000 ppm)	
20	Diethylene glycol dimethyl ether CAS_No.110-71-4	All applications	0.1 wt% of a product (1,000 ppm)	
21	N,N-dimethyl-acetamide CAS_No.127-19-5	All applications	0.1 wt% of a product (1,000 ppm)	
22	1,2-Benzenedicarboxylic acid, dihexyl ester (DNHP) CAS No. 84-75-3	All applications	0.1 wt% of a product (1,000 ppm)	

3. Control and Information Provision of Substances of Very High Concern (SVHC) of the EU REACH Regulation

At the time of "Survey on Chemical Substances" asked separately by TOKIN, the inclusion survey of SVHC (hereinafter referred to as SVHC) of the European-REACH regulation is conducted in one of three types of survey formats (however, the basic format is chemSHERPA) So please provide us with ingredient information by grasping actual usage of inclusion of substances added and updated in the SVHC list and their uses.

The specific additionally updated SVHC will be advertised on the website of the European Chemicals Agency (ECHA) every June and December every year, so check the information as appropriate and investigate the situation on the presence or absence and its use etc. - Please grasp and report to TOKIN.

SVHC details are published on the European Chemicals Agency (ECHA) website.

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

Attachment 1

Detailed Substance List

The lists below do not cover all substances. The known CAS No. is given just as an example.

- Certain Amines that must Not be Formed in Decomposition

[Some azo dye and pigments (colorants) that produce specified amines]

No.	Substance	Molecular Formula	CAS. No.
1	4-aminoazobenzene REACH/SVHC specified substance	C12H11N3	60-09-3
2	σ -anisidine REACH/SVHC specified substance	C7H9NO	90-04-0
3	2-naftylamine	C10H9N	91-59-8
4	3,3'-dichlorbenzidin	C12H10Cl2N2	91-94-1
5	4-aminodiphenyl	C12H11N	92-67-1
6	benzidine	C12H12N2	92-87-5
7	σ -toluidine REACH/SVHC specified substance	C7H9N	95-53-4
8	4-chloro-2-methylaniline	C7H8ClN	95-69-2
9	2,4-toluene diamine REACH/SVHC specified substance	C7H10N2	95-80-7
10	σ -aminoazotoluene REACH/SVHC specified substance	C14H15N3	97-56-3
11	5-nitro- σ -toluidine	C7H8N2O2	99-55-8
12	3,3'-dichloro-4,4'-diaminodiphenylmethane REACH/SVHC specified substance	C13H12Cl2N2	101-14-4
13	4,4'-methylenedianiline REACH/SVHC specified substance	C13H14N2	101-77-9
14	4,4'-diaminodiphenyl ether REACH/SVHC specified substance	C12H12N2O	101-80-4
15	p -chloroaniline	C6H6ClN	106-47-8
16	3,3'-dimethoxybenzidine	C14H16N2O2	119-90-4
17	3,3'-dimethylbenzidine	C14H16N2	119-93-7
18	2-methoxy-5-methylaniline REACH/SVHC specified substance	C8H11NO	120-71-8
19	2,4,5-trimethylaniline	C9H13N	137-17-7
20	4,4'-diaminodiphenylsulfide	C12H12N2S	139-65-1
21	2,4-diamineanisole	C7H10N2O	615-05-4
22	4,4'-diamino-3,3'-dimethyldiphenylmethane REACH/SVHC specified substance	C15H18N2	838-88-0
23	N,N'-ditolyl-1,4-phenylenediamine	C20H20N2	27417-40-9
24	2-(2-aminoethylamino)ethanol	C4H12N2O	111-41-1

- Chlordane Ozone Depleting Substance (as stipulated in the Montreal Protocol)

Controlled Substance Listed in Annex A				
Group	Represented substance classification No.	Substance name	Chemical formula	CAS. No.
I	C04097	Trichlorofluoromethane	CFC13 (CFC-11)	75-69-4
I	"CFC"	Dichlorodifluoromethane	CF2Cl2 (CFC-12)	75-71-8
I		1,1,2-Trichlorotrifluoroethane	C2F3Cl3 (CFC-113)	354-58-5

I		Dichlorotetrafluoroethane	C ₂ F ₄ Cl ₂ (CFC-114)	76-14-2
I		Monochloropentafluoroethane	C ₂ F ₅ Cl (CFC-115)	76-15-3
II	C04098 "Halon"	Bromochlorodifluoromethane	CF ₂ BrCl (halon-1211)	353-59-3
II		Bromotrifluoromethane	CF ₃ Br (halon-1301)	75-63-8
II		Dibromotetrafluoroethane	C ₂ F ₄ Br ₂ (halon-2402)	124-73-2

Controlled Substance Listed in Annex B				
Group	Represented substance classification No.	Substance name	Chemical formula	CAS. No.
I	C04099	Chlorotrifluoromethane	CF ₃ Cl (CFC-13)	75-72-9
I	"Other CFC"	Pentachloroethane	C ₂ FCl ₅ (CFC-111)	354-56-3
I		Tetrachlorodifluoroethane	C ₂ F ₂ Cl ₄ (CFC-112)	76-12-0
I		Heptachlorofluoropropane	C ₃ FCl ₇ (CFC-211)	422-78-6
I		Hexachlorodifluoropropane	C ₃ F ₂ Cl ₆ (CFC-212)	3182-26-1
I		Pentachlorotrifluoropropane	C ₃ F ₃ Cl ₅ (CFC-213)	2354-06-5
I		Tetrachlorotetrafluoropropane	C ₃ F ₄ Cl ₄ (CFC-214)	29255-31-0
I		Trichloropentafluoropropane	C ₃ F ₅ Cl ₃ (CFC-215)	1599-41-3
I		Dichlorohexafluoropropane	C ₃ F ₆ Cl ₂ (CFC-216)	661-97-2
I		Chloroheptafluoropropane	C ₃ F ₇ Cl (CFC-217)	422-86-6
II		C04100	Carbon tetrachloride	CCl ₄
III	C04101	1,1,1-trichloroethane (Methyl Chloroform)	C ₂ H ₃ Cl ₃	71-55-6
III	C04102	Bromochloromethane	CH ₂ BrCl	74-97-5

Controlled Substance Listed in Annex C				
Group	Represented substance classification No.	Substance name	Chemical formula	CAS. No.
I	C04105 "HCFC"	Dichlorofluoromethane	CHFCl ₂ (HCFC-21)	75-43-4
I		Monochlorodifluoromethane	CHF ₂ Cl (HCFC-22)	75-45-6
I		Monochlorofluoromethane	CH ₂ FCl (HCFC-31)	593-70-4
I		Tetrachlorofluoroethane	C ₂ HFCl ₄ (HCFC-121)	134237-32-4
I		Trichlorodifluoroethane	C ₂ HF ₂ Cl ₃ (HCFC-122)	41834-16-6
I		Dichlorotrifluoroethane	C ₂ HF ₃ Cl ₂ (HCFC-123)	34077-87-7
I		2,2-dichloro-1,1,1-trifluoroethane	CHCl ₂ CF ₃ (HCFC-123)	306-83-2
I		chlorotetrafluoroethane	C ₂ HF ₄ Cl (HCFC-124)	63938-10-3
I		2-chloro-1,1,1,2-tetrafluoroethane	CHFClCF ₃ (HCFC-124)	2837-89-0
I		Trichlorofluoroethane	C ₂ H ₂ FCl ₃ (HCFC-131)	27154-33-2
I		Dichlorodifluoroethane	C ₂ H ₂ F ₂ Cl ₂ (HCFC-132)	25915-78-0
I		Chlorotrifluoroethane	C ₂ H ₂ F ₃ Cl (HCFC-133)	1330-45-6

I		Dichlorofluoroethane	$C_2H_3FCl_2$ (HCFC-141)	1717-00-6
I		1,1-dichloro-1-fluoroethane	CH_3CFCl_2 (HCFC-141 b)	1717-00-6
I		Chlorodifluoroethane	$C_2H_3F_2Cl$ (HCFC-142)	25497-29-4
I		1-chloro-1,1-difluoroethane	CH_3CF_2Cl (HCFC-142 b)	75-68-3
I		Chlorofluoroethane	C_2H_4FCl (HCFC-151)	
I		Hexachlorofluoropropane	C_3HFCl_6 (HCFC-221)	134237-35-7
I		Pentachlorodifluoropropane	$C_3HF_2Cl_5$ (HCFC-222)	134237-36-8
I		Tetrachlorotrifluoropropane	$C_3HF_3Cl_4$ (HCFC-223)	134237-37-9
I		Trichlorotetrafluoropropane	$C_3HF_4Cl_3$ (HCFC-224)	134237-38-0
I		Dichloropentafluoropropane, (ethyne, fluoro-)	$C_3HF_5Cl_2$ (HCFC-225)	127564-92-5
I		Dichloropentafluoropropane	$CF_3CF_2CHCl_2$ (HCFC -225ca)	422-56-0
I		Dichloropentafluoropropane	CF_2ClCF_2CHClF (HCFC-225cb)	507-55-1
I		Monochlorohexafluoropropane	C_3HF_6Cl (HCFC-226)	134308-72-8
I		Pentachlorofluoropropane	$C_3H_2FCl_5$ (HCFC-231)	134190-48-0
I		Tetrachlorodifluoropropane	$C_3H_2F_2Cl_4$ (HCFC-232)	134237-39-1
I		Trichlorotrifluoropropane	$C_3H_2F_3Cl_3$ (HFC-233)	134237-40-4
I		Dichlorotetrafluoropropane	$C_3H_2F_4Cl_2$ (HCFC-234)	127564-83-4
I		Monochloropentafluoropropane	$C_3H_2F_5Cl$ (HCFC-235)	134237-41-5
I		Tetrachlorofluoropropane	$C_3H_3FCl_4$ (HCFC-241)	134190-49-1
I		Trichlorodifluoropropane	$C_3H_3F_2Cl_3$ (HCFC-242)	134237-42-6
I		Dichlorotrifluoropropane	$C_3H_3F_3Cl_2$ (HCFC-243)	134237-43-7
I		Monochlorotetrafluoropropane	$C_3H_3F_4Cl$ (HCFC-244)	134190-50-4
I		Trichlorofluoropropane	$C_3H_4FCl_3$ (HCFC-251)	134190-51-5
I		Dichlorodifluoropropane	$C_3H_4F_2Cl_2$ (HCFC-252)	134190-52-6
I		Monochlorotrifluoropropane	$C_3H_4F_3Cl$ (HCFC-253)	134237-44-8
I		Dichlorofluoropropane	$C_3H_5FCl_2$ (HCFC-261)	134237-45-9
I		Monochlorodifluoropropane	$C_3H_5F_2Cl$ (HCFC-262)	134190-53-7
I		Monochlorofluoropropane	C_3H_8FCl (HCFC-271)	134190-54-8
II	C04104 "HBFC"	Dibromofluoromethane	$CHFBr_2$	
II		Bromodifluoromethane	CHF_2Br (HBFC-22B1)	
II		Bromofluoromethane	CH_2FBr	
II		Tetrabromofluoroethane	C_2HFBr_4	
II		Tribromodifluoroethane	$C_2HF_2Br_3$	
II		Dibromotrifluoroethane	$C_2HF_3Br_2$	
II		Bromotetrafluoroethane	C_2HF_4Br	
II		Tribromofluoroethane	$C_2H_2FBr_3$	
II		Dibromodifluoroethane	$C_2H_2F_2Br_2$	
II		Bromotrifluoroethane	$C_2H_2F_3Br$	
II		Dibromofluoroethane	$C_2H_3FBr_2$	

II	Bromodifluoroethane	C ₂ H ₃ F ₂ Br	
II	Bromofluoroethane	C ₂ H ₄ FBr	
II	Hexabromofluoropropane	C ₃ HFBr ₆	
II	Pentabromodifluoropropane	C ₃ HF ₂ Br ₅	
II	Tetrabromotrifluoropropane	C ₃ HF ₃ Br ₄	
II	Tribromotetrafluoropropane	C ₃ HF ₄ Br ₃	
II	Dibromopentafluoropropane	C ₃ HF ₅ Br ₂	
II	Bromohexafluoropropane	C ₃ HF ₆ Br	
II	Pentabromofluoropropane	C ₃ H ₂ FBr ₅	
II	Tetrabromodifluoropropane	C ₃ H ₂ F ₂ Br ₄	
II	Tribromotrifluoropropane	C ₃ H ₂ F ₃ Br ₃	
II	Dibromotetrafluoropropane	C ₃ H ₂ F ₄ Br ₂	
II	Bromopentafluoropropane	C ₃ H ₂ F ₅ Br	
II	Tetrabromofluoropropane	C ₃ H ₃ FBr ₄	
II	Tribromodifluoropropane	C ₃ H ₃ F ₂ Br ₃	
II	Dibromotrifluoropropane	C ₃ H ₃ F ₃ Br ₂	
II	Bromotetrafluoropropane	C ₃ H ₃ F ₄ Br	
II	Tribromofluoropropane	C ₃ H ₄ FBr ₃	
II	Dibromodifluoropropane	C ₃ H ₄ F ₂ Br ₂	
II	Bromotrifluoropropane	C ₃ H ₄ F ₃ Br	
II	Dibromofluoropropane	C ₃ H ₅ FBr ₂	
II	Bromodifluoropropane	C ₃ H ₅ F ₂ Br	
II	Bromofluoropropane	C ₃ H ₆ FBr	

Controlled Substance Listed in Annex E				
Group	Represented substance classification No.	Substance name	Chemical formula	CAS. No.
	CO4103	Methyl bromide	CH ₃ Br	74-83-9

- Asbestos

Substance name	CAS. No.
Actinolite asbestos	77536-66-4
Grunerite, amosite	12172-73-5
Anthophyllite asbestos	77536-67-5
Serpentine chrysotile	12001-29-5
Crocidolite asbestos	12001-28-4
Tremolite	77536-68-6
Other types of asbestos	

- Chlordane

Substance name	CAS. No.
Oxychlordane	27304-13-8

Gamma-chlordane	3734-48-3
Cis-chlordane	5103-71-9
Cis-nonachlor	5103-73-1
Trans-chlordane	5103-74-2
Trans-nonachlor	39765-80-5
Heptachlor	76-44-8
Other types of chlordane	

- N-para-phenylenediamine

Substance name	CAS. No.
N,N'-Ditolyl-para-phenylenediamine	
N-tolyl-N'-xylyl-para-phenylenediamine	
N,N'-Dixylyl-para-phenylenediamine	

- Polybrominated biphenyl (PBB)

Substance name	CAS. No.
Hexabromo-1,1'-biphenyl ^ホ	36355-01-8
Polybrominated biphenyls	59536-65-1
PBBs (octobromomixture)	27858-07-7
Other PBB's	

- Polybrominated diphenyl ether (PBDE)

Substance name	CAS. No.
Monobromodiphenylether	101-55-3
Dibromodiphenylether	2050-47-7
Tribromodiphenylether	49690-94-0
Tetrabromodiphenylether 40088-47-9	40088-47-9
Pentabromodiphenylether	32534-81-9
Hexabromodiphenylether	36483-60-0
Octabromodiphenylether	32536-52-0
Nonabromodiphenylether	63936-56-1
Decabromodiphenylether	1163-19-5
Other PBDEs	—

- Hexa-bromocyclododecane (HBCDD and HBCD)

Substance name	CAS. No.
Hexa-bromocyclododecane	3194-55-6
Hexa-bromocyclododecane (Mixture of isomers)	25637-99-4

- Specific phthalate compounds (phthalate)

Abbreviation	Substance name	CAS. No.
--------------	----------------	----------

DEHP (DOP)	Bis(2-ethylhexyl) phthalate (DEHP [DOP])	117-81-7
DBP	Di-n-butyl phthalate (DBP)	84-74-2
BBP	Butyl benzyl phthalate (BBP)	85-68-7
DIBP	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	84-69-5
DINP	Diisononyl phthalate (DINP)	28553-12-0 68515-48-0
DIDP	Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1
DNOP	Di-n-octyl phthalate (DNOP)	117-84-0
DNHP	Di-n-hexyl phthalate (DNHP)	84-75-3

- Radioactive substances

Substance name	JGPSSI represented substance classification No.	CAS. No.
Uranium	C06001	-
Plutonium	C06002	-
Radon	C06003	-
Americium	C06004	-
Thorium	C06005	-
Cesium (radioactive isotope only)	C06006	-
Strontium (radioactive isotope only)	C06007	-
Other radioactive substances	C06007-9	-

- Tri-substituted organostannic compounds (including tributyltin (TBT) compounds and triphenyltin (TPT) compounds)

Inorganic compounds of metallic tin, tin alloy, tin plating, and tin are not applicable.

Substance name	CAS. No.
Bis(tributyltin)oxide	56-35-9
Trimethyltin bromide	1066-44-0
Trimethyltin chloride	1066-45-1
Tributyltin methoxide	1067-52-3
Tributyltinhydroxide	1067-97-6
Trimethyltin <i>azide</i> .	1118-03-2
Trimethyltin acetate	1118-14-5
Tributyl[(methylsulfonyl)oxy]stannane	13302-06-2
Triphenyltin dimethyldithiocarbamate	1803-12-9
Triethyltin acetate.	1907-13-7
Fluoro(tributyl) <i>stannane</i>	1983-10-4
Tributyltin dimethyldithiocarbamate.	20369-63-5
Tributyltin=methacrylat	2155-70-6

Attachment 2

Analysis Standards for RoHS II Directive Substances

Analysis Methods for the 10 RoHS II Substances are as follows:

1. Standard Analysis Equipment

1) Cadmium, Lead, Mercury, and Total Chromium (please refer to Item 3)

- Inductively Coupled Plasma-Atomic Emission Spectrometer (ICP-AES)
- Inductively Coupled Plasma Mass Spectrometer (ICP-MS or ICPMS)
- Atomic Absorption Spectroscope (AAS)

or other similar analysis equipment

Should total chromium exceed regulated values (threshold level), perform a hexavalent chromium analysis.

2) Hexavalent Chromium

- diphenylcarbazide absorptiometer
- or other similar analysis equipment

3) PBBs and PBDEs

Gas Chromatograph and Mass Spectrometer (GC-MS) or other similar analysis equipment

4) Specific phthalate compounds (phthalate):DEHP,DBP,BBP,DIBP

Gas Chromatograph and Mass Spectrometer (GC-MS) or other similar analysis equipment

Reference: There is USEPA3540C8270D as an Analysis method. (or IEC62321-8)

2. Preparation

Please perform appropriate pretreatment. If dissolution is necessary, please confirm that there is complete dissolution. Checkmark the applicable entries in Form 4 **RoHS II Directive**

10 Substance Containment Analysis Data or other document clearly indicating complete dissolution has taken place. (Please indicate the forms to be completed when requesting the analysis)

Ensure that the analysis equipment conforms to the minimum limit of detection as shown in item 4 below.

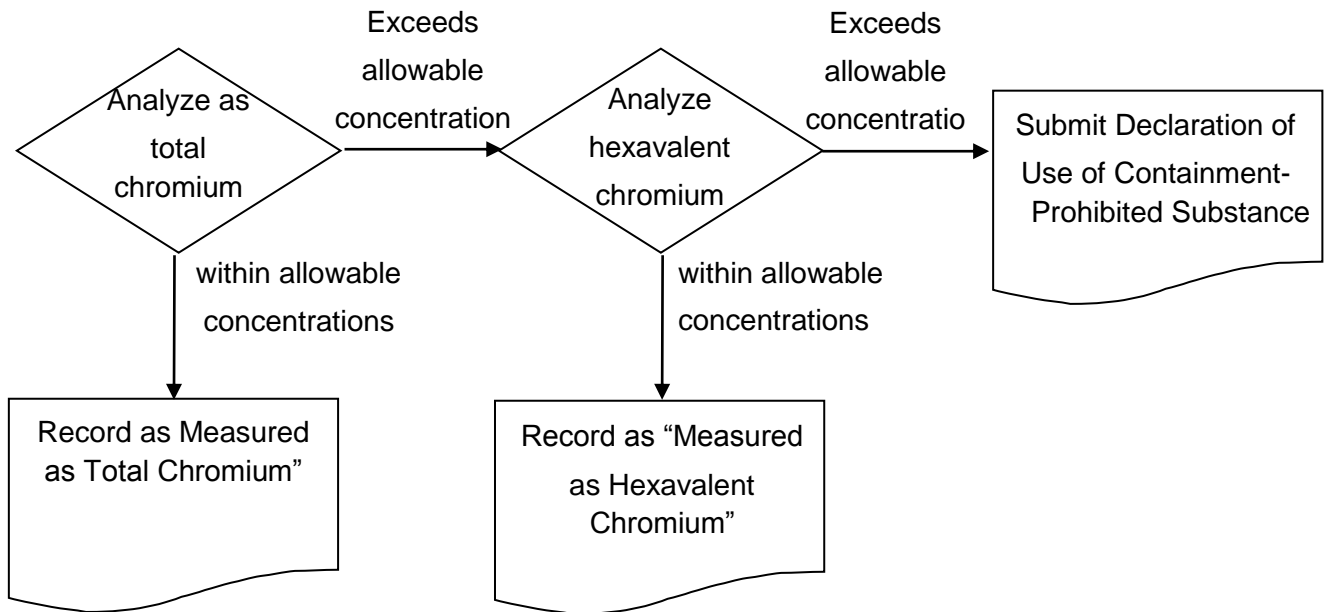
3. Analysis Procedure for Hexavalent Chromium

- Total Chromium as an Alternate Analysis

We principally want to determine the content of hexavalent chromium. However according to concentrations, we can analyze total chromium as an alternative. (Please refer to the following chart) If the analysis value is total chromium, please specify this on the reporting form.

- How to Calculate Content Amount

In the case of chromate treated products, convert hexavalent chromium per surface plating volume from the extraction concentration. In the case of coatings, etc., convert hexavalent chromium per data mass.

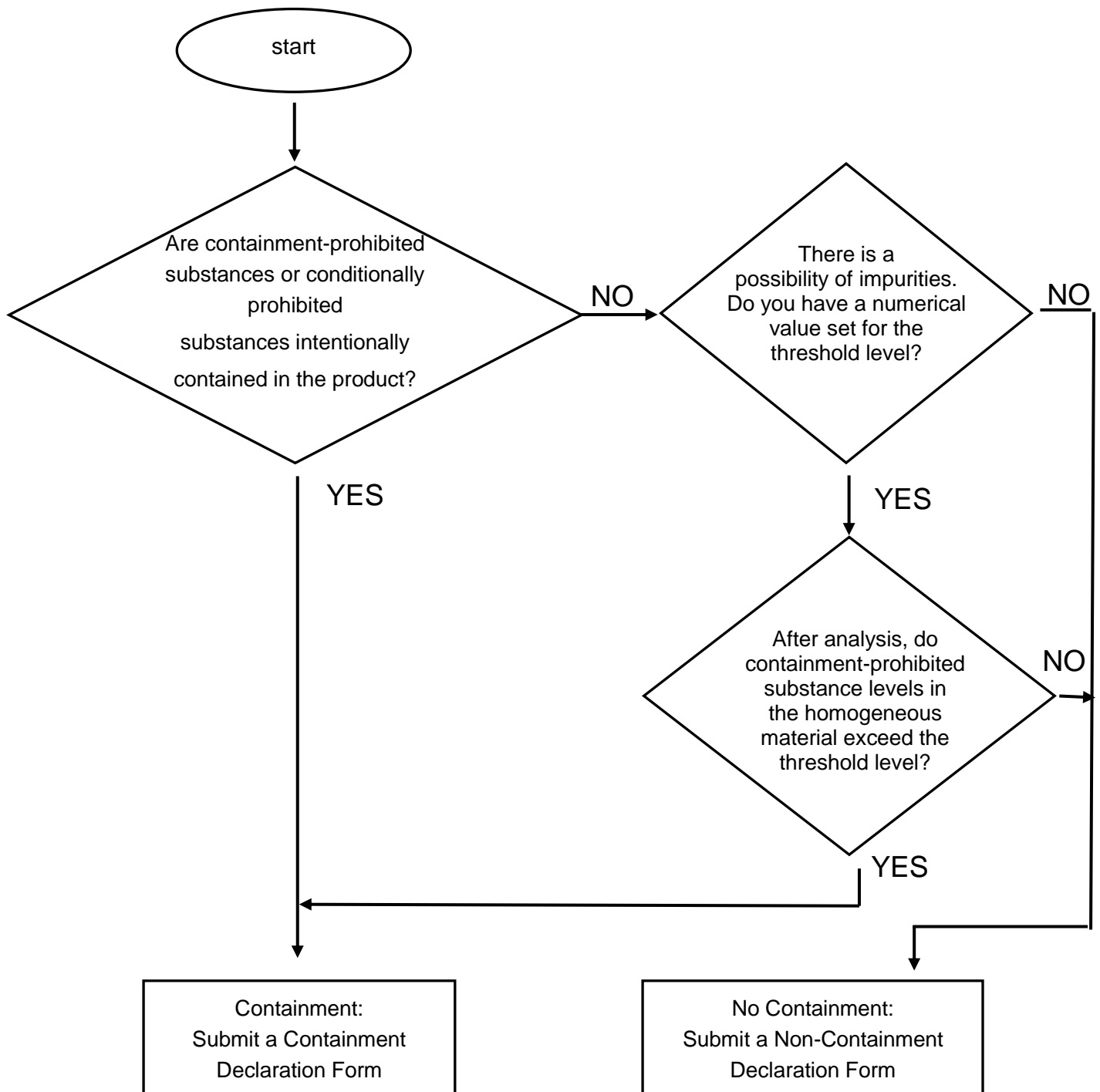


4. Minimum Limits of Detection

Clearly indicate the lower limit detection certificates for each analysis equipment used.

- | | |
|---------------------------|--------|
| 1) Cadmium | 5 ppm |
| 2) Lead | 30 ppm |
| 3) Mercury | 5 ppm |
| 4) Hexavalent chromium | 5 ppm |
| 5) PBBs | 50 ppm |
| 6) PBDEs | 50 ppm |
| 7) Specific phthalic aids | 50 ppm |

5. Containment Judgment Flow



Attachment 3

Cautionary Materials List

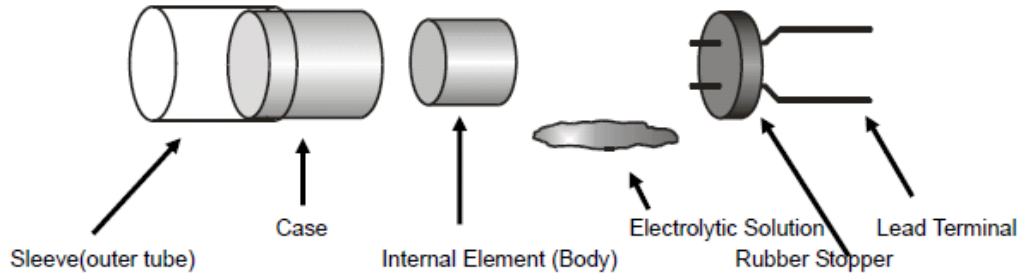
Type	Product examples	Assumed containment-prohibited substance (brackets contain purpose and parameters)
Colored resin	Molding resin (bobbin, cap, case)	Lead (colorant)
	Heat-shrink sleeve, PVC tube	Cadmium (colorant, stabilizer for polyvinyl Chloride)
	Adhesive	Hexavalent chromium (colorant)
	Tape	PBDEs (fire retardant)
	PET sheet	PBBs (fire retardant)
	Electric wire coating	Specific phthalic aids (plasticizer)
Coating, ink	Lubricant, solvent, coating, Chemical, ink	Lead (colorant) Cadmium (colorant) Hexavalent chromium (colorant) Specific phthalic aids (plasticizer)
Rubber	Rubber roller	Lead (vulcanizing accelerator, receptor, heat Stabilizer) Specific phthalic aids (plasticizer)
Metalwork parts	Holder case, cover, lid, bracket	Cadmium (impurity in free-machining brass) Lead (impurity in free-machining aluminum, Stabilizer for electroless plating, impurity in tin) Hexavalent chromium (to increase corrosion Resistance)
	Wire terminals, lead frame	
	Screw, spacer, collar, shaft	
	Roller bearing bush	Lead (plastic coat)
Electric wire Terminals	Lead wires, harness, cable	Lead (impurity in tin plating)
Electric parts	Fuse	Cadmium (to adjust resistor melting point) Electric parts lead (to adjust resistor melting point)
	Terminal parts (condenser, etc.)	Lead (to diffuse internal high-temperature solder to terminals)

Attachment 4

Example of Parts

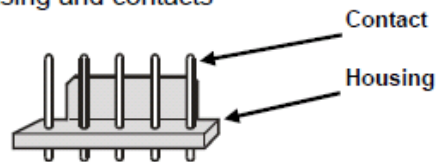
[Component Part Example 1] Aluminum electrolytic capacitor

Component parts: Sleeve, Case, Internal Element, Electrolytic Solution, Lead Terminal



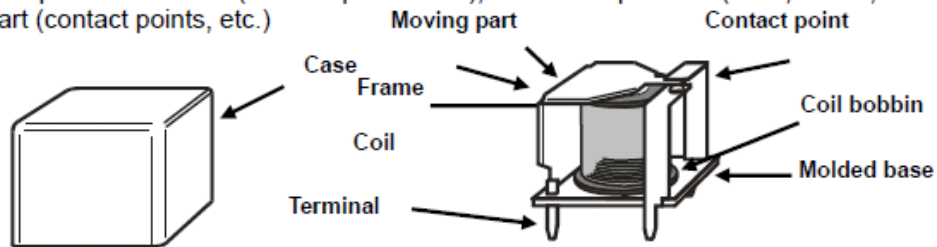
[Component Part Example 2] Connectors

Component parts: Housing and contacts



[Component Part Example 3] Switches, relays, and other parts with mechanical components

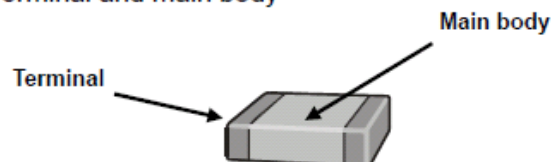
Component parts: Part case (molded plastic etc.), metal components (lever, frame, terminals, etc.), moving part (contact points, etc.)



* Please pay particular attention to special metals (alloys) used for plastic flame retardants, and electrical characteristics and lubrication of contact points.

[Component Part Example 4] Surface-mounted chip parts

Component parts: Terminal and main body



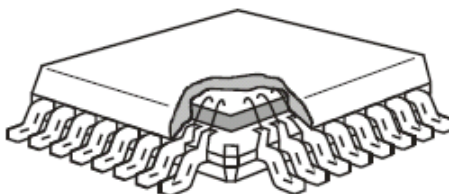
* The main body of the part is made of multiple materials and the substance concerned is present, break it down.
e.g.) Part (main body) → ceramic and internal electrode

(from JGPSSI Material Composition Survey and Response Manual, English 2011.4.8 1.2 Edition)

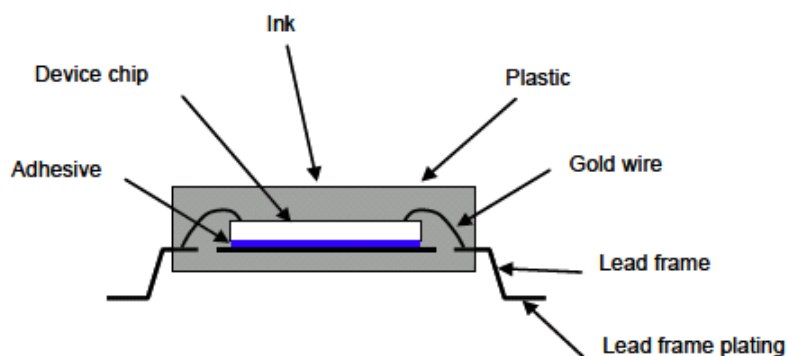
[Component Part Example 5] Semiconductor devices

Component parts: Lead terminal (lead frame, etc.), package main body (molded plastic, etc.), and device chip

Outward appearance:



Cross section:

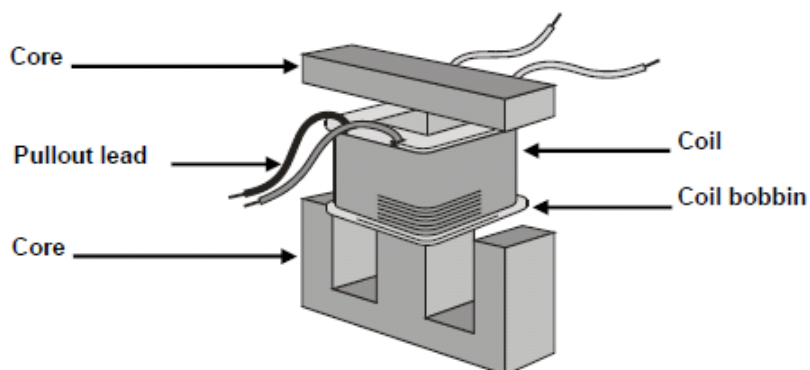


* Please pay particular attention to any flame retardants in the package plastic, and the lead material and treatment

* Make the response concerning the device chip as best you can

[Component Part Example 6] Transformers and inductors

Component parts: Core, coil, bobbin, lead wire, insulator, case frame, etc.

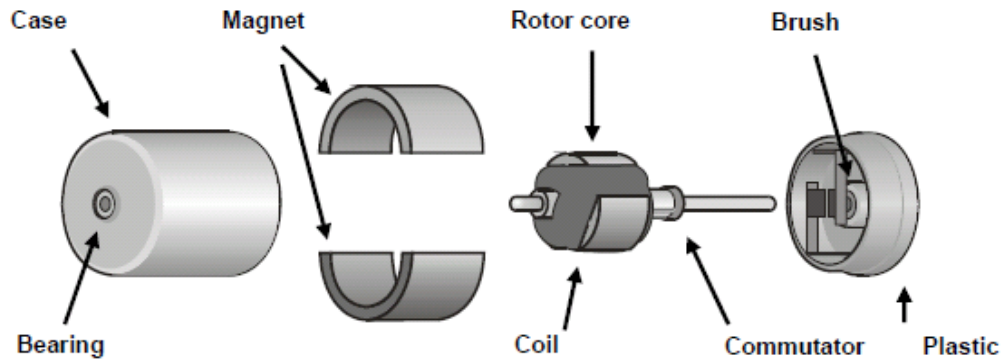


* Pay particular attention to flame retardants in plastic materials or insulating parts, impregnant in the coil, PVCs or flame retardants in the lead wire.

(from JGPSSI Material Composition Survey and Response Manual, English 2011.4.8 1.2 Edition)

[Component Part Example 7] DC motors

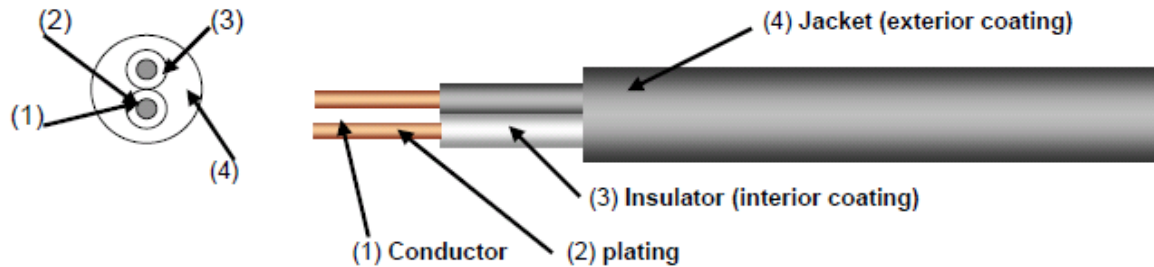
Component parts: Part case (molded plastic, etc.), metal parts (shaft, rotor core, terminal, frame, etc.) brush, magnet, coil, and other



- * Pay particular attention to special metals (alloys) used for flame retardants in plastic, and electrical characteristics and lubrication in commutators, as well as grease in bearings.
- * Calculate the amount contained per part from the amounts contained in each of the part components, when the substance is contained in lead wire and electronic circuits.

[Component Part Example 8] Electrical cable (power cord)

Component parts: Conductor, plating, insulator (interior coating), and jacket (exterior coating)



(from JGPSSI Material Composition Survey and Response Manual, English 2011.4.8 1.2 Edition)