# SII GREEN PROCUREMENT STANDARDS

Version 8.1

February 2015

Seiko Instruments Inc.

# **Table of Contents**

			Page
PREFAC	Ε		· 1
SII GREE	EN PROCU	REMENT STANDARDS	· 2
[I] DEFIN	IITIONS OF	TERMS ·····	. 3
[II] ENVI	RONMENT	AL CONTROL SYSTEM STANDARDS	· 4
[III] PRO	DUCTION (	GOODS PROCUREMENT STANDARDS	4
	Annex 1	List of Environmental Laws	· 5
	Annex 2	List of Use Prohibition Substances in the Manufacturing Process.	. 5
	Annex 3	List of Use Avoidance Substances in the Manufacturing Process.	· 5
	Annex 4	List of Containing Prohibition Substances in Goods	· 6
	Annex 5	List of Conditional Containing Prohibition Substances in Goods	. 7
	Annex 6	List of Containing Avoidance Substances in Goods	. 8
	Tables: C	ompound Details (Main Examples)	· 12
	Applicable	e Standards and Applications of Restricted Chemical Substances	· 18
QUESTIC	ONNAIRES	AND RESULTS	
Form 1	ENVIRON	IMENTAL CONTROL SYSTEM QUESTIONNAIRE	· 24
Form 2	PRODUC	TION GOODS PROCUREMENT QUESTIONNAIRE	· 25
Form 3	RESULTS	OF RESEARCH ON CHEMICAL SUBSTANCES BEING USED IN THE	
	MANUFAG	CTURING PROCESS	· 26
Form 4	RESULTS	OF RESEARCH ON CHEMICAL SUBSTANCES CONTAINED IN GOODS	. 27

### **PREFACE**

Government regulations related to environmental activities began in Europe and social demands for protecting the environment are intensifying. Requirements for business activities, production, and material procurement (green procurement) that are eco-friendly, such as forming a recycling-oriented society in which energy and resources are recycled and protecting from environmental pollution by managing chemical substances are constantly growing. Since 1999, based on the SII Group (SII) Environmental Policy, we have been promoting our green procurement from production goods to office supplies with the cooperation of our suppliers.

SII also prioritizes procurement of eco-friendly materials from suppliers that proactively act to support environment conservation based on this standard.

SII will continue its eco-friendly production and business activities, so we will be grateful for our suppliers' cooperation based on their understanding the importance of activities for environment conservation.

### SII GROUP ENVIRONMENTAL POLICY

### **ENVIRONMENTAL CONCEPT**

The SII Group will continue to harmonize its corporate activities with the global environment, designate the "Three Green" concept consisting of Green Process, Green Products and Green Life as our basic concept, promote and conduct environmental activities, and contribute to the establishment of a sustainable society that can coexist with nature.

### **ENVIRONMENTAL ACTIVITY GUIDELINES**

### We will strive to

- Continue to improve our environmental management system and environmental performance, while performing advanced activities that respond to the requirements of society to enhance stakeholder value.
- 2. Not only observe all laws, rules, regulations and agreements related to the environment, but also mitigate environmental risks and prevent environmental pollution.
- 3. Carry out our tasks with a focus on the following activities based on "SYO"ism\*1:
  - 1) Providing products and services that minimize their impact on the environment throughout their lifecycles and can contribute to environmental conservation.
  - 2) Proactively promoting eco-friendly, efficient manufacturing.
  - 3) Fully enforcing energy conservation measures in the entire business activities and addressing global warming.
  - 4) Recognizing the finite nature and the preciousness of resources of the earth, and encouraging their responsible use.
  - 5) Reducing risks arising from chemical substances and promoting the elimination of harmful substances.
- 4. Promote SII Green Purchasing and ensure proper and strict management of chemical substances contained in products.
- 5. Be aware of our impact on biodiversity and all the benefits we receive from it, and make efforts toward biodiversity conservation.
- 6. Raise environmental awareness of all employees and encourage them to protect the environment in their personal lives.
- 7. Make a social contribution to and achieve accountability for environmental protection, while facilitating communication with the society.
- 8. Ask our suppliers for their cooperation in following this policy.
  - \*1 "SYO"ism: SII technology philosophy

### SII GREEN PROCUREMENT STANDARDS

1. SII Green Procurement Standards

The SII Green Procurement Standards consist of two sections. Each section contains a description of the standards for that type of product or material. They also include a set of survey questions for each supplier except for suppliers that only supply office supplies.

- (1) Environmental Control System Standard
- (2) Production Goods Procurement Standard
- 2. Scope of Application

These standards apply to all items, both tangible and intangible, that SII procures.

- (1) Tangible goods including raw materials, parts (electrical components, finished goods, and other components), packaging materials, and production equipment.
- (2) Intangible goods including services and work

SII will provide a "Purchase Item List Subjected to Survey" (Note 1) for specific items that are subject to examination for use or inclusion of chemical materials. If SII does not submit such a list, suppliers need not survey materials for use or inclusion of chemical materials.

(Note 1) Purchase Item List Subjected to Survey
List of procurement items that SII requests suppliers to survey.

3. The following forms must be completed and submitted to SII, but what is instructed by the SII operating division that requested the survey, for specific requirements should be followed.

(1) Form 1 (See page 24)	Environmental Control System Questionnaire*1
(2) Form 2 (See page 25)	Production Goods Procurement Questionnaire*2
(3) Form 3 (See page 26)	Results of Research on Chemicals Substances Being Used in the
	Manufacturing Process*3
(4) Form 4 (See page 27)	Results of Research on Chemicals Substances Contained in Goods*4

- \*1 "Environmental Control System Questionnaire"

  SII requires this information to determine the indirect environmental impact of manufactured products.
- \*2 "Production Goods Procurement Questionnaire"

  SII requires this information to confirm that production goods to be procured are environmentally friendly.
- \*3 "Results of Research on Chemical Substances Being Used in the Manufacturing Process"

  SII requires this information if you use any item specified in the "Production Goods Procurement Questionnaire" in your production process (excluding coolants and extinguishants).
- \*4 "Results of Research on Chemical Substances Contained in Goods"

  SII requires this information if any item specified in the "Production Goods Procurement Questionnaire" is contained in products.
- 4. If necessary, you might be asked to submit materials other than survey forms (such as lists of components in procured products, analysis data, or MSDS forms) or to submit JAMP AIS\*1 or (former) JGPSSI\*2 survey forms if SII's customer requests them, so cooperate with the requests of each business unit.
  - \*1 JAMP AIS:

This information sheet is used to disclose and transmit information about chemical substances contained in articles, as specified by the Joint Article Management Promotion consortium.

\*2 (former) JGPSSI survey form:

This is the form for responding to the survey about chemical substances included in parts and materials, as specified by the Japan Green Procurement Survey Standardization Initiative.

- 5. When necessary, SII may conduct on-site audits. We appreciate your cooperation.
- 6. Chemical substances specified herein are independently selected and classified by SII taking into consideration existing legislation and future rules and regulations. These are subject to change without notice depending upon the social and legal environment.
- 7. The SII Green Procurement Standards are subject to revision without notice in the event of changes in the social or legal environment.

Note: Please contact the SII operating division that requested the examination of goods subject to survey.

### [I] DEFINITIONS OF TERMS

#### Use:

Use means to use chemical substances for cleaning products and parts. In other words, use means "to use" chemical substances during manufacturing such that they are not contained in products or parts.

Example) Cleaning parts, etc.

### Containing

Containing means "to contain" chemical substances that have been intentionally added to products and parts to meet their functionality and performance. Reaction-type residue like non-reaction monomer and impurities are excluded. 
If an impurity in a chemical substance for which a threshold level is specified exceeds an acceptable value, the chemical substance is judged to contain a prohibited substance.

#### Contents concentration:

This is the chemical substance concentration and is calculated using the equation below.

Contents concentration = weight of the target chemical substance / weight of the part that contains the target chemical substance

The unit is ppm (parts per million), or wt% (weight percent).

Note that the definition of "weight of the part" used when calculating the contents concentration differs depending on the applicable laws, so see the threshold level column or remarks column for the target chemical substance.

#### Intentional addition

Intentional addition means intentionally making products or parts contain substances in order to suffice specific features, appearance, or quality. Intentional addition must be reported by filling Form 4 "Results of Research on Chemical Substances Contained in Goods" on page27, regardless of the contents concentration.

#### Impurity:

This is a substance included in natural raw materials that cannot be completely removed during the process in which the materials are used as industrial materials for manufacturing.

This term also refers to by-products, catalyst residue, and other substances generated during the synthetic reaction processes of materials and drugs.

#### Examples)

- ·Lead impurities in lead-free solder
- ·Monomer components that cannot be completely removed from synthetic resin materials

#### Homogenous material:

Material that cannot be mechanically resolved into different material. □

#### Examples)

In the case of a power cable, the homogenous materials are external covering, internal covering, and core.

If a marking such as model name is printed on the external coating, the ink is also regarded as homogenous material.

# [II] ENVIRONMENTAL CONTROL SYSTEM STANDARDS

No.	Items	Criteria	Applied	Suppliers
1	Certification of ISO14001	Obtained ISO14001 or other third-party standard certification (e.g., Eco Action 21, Eco Stage).  If not yet obtained, it is desirable to be "under preparation" or "under contemplation" to obtain the certification.	Obtained ISO-14001, etc.	Not yet obtained ISO-14001,etc.
2	Environmental policy	Have an environmental conservation/preservation policy.	_	0
3	Environmental goals	Have concrete goals for environmental conservation/preservation.	_	0
4	Action plan	Have an action plan to achieve the goals.	_	0
5	Organization	Establish an organization to promote environmental conservation/preservation.	_	0
6	Education & Training	Provide employees with an environment-related education and training program.	_	0
7	Internal audits	Internally conduct environmental audits.	_	0
8.1	Control system	Have a system to supervise legislative and voluntary regulations.	_	0
8.2		Be aware of and comply with applicable laws and regulations (See Annex 1 on page 5 for environmental laws).	0	0
8.3		Have a system to control and save energy (e.g., lighting and facilities energy-saving program).	0	0
8.4		Have a system to control and minimize wastes (e.g., separated disposal and zero-emissions).	0	0
8.5		Have a system to control chemical substances (e.g., to update information on chemical substances being used).	0	0
8.6		Introduce or try to introduce a product assessment scheme (e.g., check that environment consideration is taken in the design and production phases).	0	0
8.7		Have a system to collect and recycle used products and packaging materials.	0	0
9	Disclosure	Have a system and tools to disclose information (e.g., Internet, environmental pamphlets and reports).	0	0
10	Biodiversity	To be actively involved in (or support) biodiversity conservation.	0	0

# [III] PRODUCTION GOODS PROCUREMENT STANDARDS

Products: Finished or semi-finished products, which provide their intended functionality and performance as they are.

Parts: Items that should be integrated or processed into or for SII products (units/parts, electronic parts, and outer cases).

No.	Itomo	Items Criteria	Goods co	Goods covered by this standard			
INO.	items	erns		Parts	Products		
1	No harmful substances	No packaging materials (outer boxes, buffer materials, etc.) contain heavy metals (cadmium, sexivalent chrome, mercury and lead).	0				
2	Use prohibition of	No exterior packaging, buffer materials and bags use polyvinyl chloride.	0				
3	Resources saving	No excessive packaging. Measures are taken to reduce packaging volume (less packaging compared with similarproducts or parts).	0				
4	Indication of materials	Plastic packaging materials (mainly styrene foam used as cushions) bear indication of materials.	0				
		Comply with ISO-11469, DIN-6120 or other appropriate standards. ISO11469-compliant marking example: >PS< Polystyrene					
5	Reduction of foams	The use of styrene foam is minimized or it is substituted with other materials: e.g., cardboard buffers, pulp molds	0				
6.1	Use of harmful substances	No material specified in Annex 2 (page 5) is used in any manufacturing process.	0	0	0		
6.2	substances 2	Use of materials specified in Annex 3 (page 5) is avoided in any manufacturing process.	0	0	0		
7.1	Containing of harmful substances	No material shown in Annex 4 (page 6) is contained.	0	0	0		
7.2	substances	Containing of materials specified in Annex 6 (page 8 to 11) is avoided.	0	0	0		
7.3		Conditional containing prohibition substances specified in Annex 5 (page 7) is not contained.	0	0	0		
8	Indication of materials	ISO11469 or other standard is marked on plastic materials.  Ex) Outer cases of products		0	0		
9	Compliance with laws	The procurement goods comply with legislative controls under the Recycling Law, Energy Saving Law and other applicable laws.  Ex) Rechargeable batteries, computers			0		
10	Resources saving	Resources are efficiently used. (Use of recycled parts and resources, miniaturization of goods)			0		
11	Energy saving	Power consumption is low in both operation and standby modes. Compliance with energy saving programs, such as Energy Star program.			0		
12	Wastes	The separability and degradability at the time of disposal is taken into account to ensure proper disposition of goods.			0		

### **Annex 1** List of Environmental Laws

No.				
1	Laws related to air pollution prevention			
2	Laws related to water pollution prevention			
3	Laws related to noise control			
4	Laws related vibration control			
5	Laws related to offensive odor prevention			
6	Laws related to waste disposal			
7	Laws related to ozone layer protection			
8	Laws related to handling and storing of hazardous chemical substances			
9	Laws related to recycling and reuse			
10	Laws related to energy saving			
11	Laws related to occupational safety and health			
12	Other (Local regulations, etc.)			

# **Annex 2** List of Use Prohibition Substances in the Manufacturing Process

\*:Unique Nos. of chemical substances designated by the Chemical Abstract Service, a department of the American Chemistry Association.

More specifically, substances whose use should be prohibited in the manufacturing process (washing).

		manufacturing process (washing).	CAS No. *	Remark
	1	1,1,1-trichloroethane	71-55-6	
	2	CFC group		
	3	HBFC group		
	4	Halon group		
	5	Bromochloromethane	74-97-5	
E	6	Tetrachloroethylene	127-18-4	
Prohibition	7	Benzene * 1	71-43-2	
roh	8	Pentachloroethane	76-01-7	
Use P	9	1,1,1,2-tetrachloroethane	630-20-6	
ıš	10	Hexachloroethylene	67-72-1	
	11	Methyl bromide	74-83-9	
	12 Carbon tetrachloride		56-23-5	
	13	1,1,2,2-tetrachloroethane	79-34-5	
	14	1,1,2-trichloroethane	79-00-5	
	15	1,1-dichloroethylene	75-35-4	

<sup>\*1</sup> Excluding fuel for cars

# **Annex 3** List of Use Avoidance Substances in the Manufacturing Process

More specifically, substances whose use should be avoided in the manufacturing process (washing).

		manufacturing process (washing).	CAS No.	Remark
	1	1,2-dichloroethane	107-06-2	When contained, see Annex 6 on page 9.
	2	1,2-dichloroethylene	540-59-0	
	3	1,3-dichloropropene	542-75-6	
d)	4	HCFC group		
avoidance	5	HFC group		
oid	6	PFC group		
	7	Dichloromethane	75-09-2	
Use	8	Cis-1,2-dichloroethylene	156-59-2	
	9	Trichloroethylene	79-01-6	When contained, see Annex 6 on page 8.
	10	Nitrous oxide	10024-97-2	
	11	Sulfur hexafluoride	2551-62-4	
	12	Chloroform	67-66-3	

### **Annex 4** List of Containing Prohibition Substances in Goods

		(substances that must not contained in goods)	CAS No.	Threshold Level *2	Remark
	1	4-nitrobiphenyl and its salt	92-93-3	Intentional addition	
	2	DDT	50-29-3	Intentional addition	
Ī	3	Asbestos	Page 12 Table A	Intentional addition	
	4	Aldrin	309-00-2	Intentional addition	
	5	Endrin	72-20-8	Intentional addition	
	6	Chlordane	57-74-9	Intentional addition	
	7	Dieldrin	60-57-1	Intentional addition	
F	8	Bis(chloromethyl) ether	542-88-1	Intentional addition	
F	9	Tributyl tin oxide(TBTO)	56-35-9	Intentional addition	
	10	Tri-substituted organostannic compounds (including Tributyl tin and Triphenyl tin)	Page 12 Table B	Intentional addition	
ug Li	11	Hexachloro benzene (HCB)	118-74-1	Intentional addition	
Ę.	12	Polychlorinated naphthalene (3 or more chlorine)	70776-03-3	Intentional addition	
딸	13	Polychlorobiphenyls (PCB)	1336-36-3	Intentional addition	
8	14	Polychlorinated terphenyls (PCT)	61788-33-8	Intentional addition	
Containing Prohibition (CP) Banning the Containing	15	Polybrominated diphenylethers (PBDE)	Page 12 Table C	1000 ppm	Contents concentration in
annin	16	Polybrominated biphenyls (PBB)	Page 13 Table D	1000 ppm	homogenous material
B	17	Azo compounds *1	Page 13 Table E	Intentional addition	
ا بق	18	2,4,6-Tri-tert-butylphenol	732-26-3	Intentional addition	
9		N,N'-ditolyl-p-phenylenediamine	27417-40-9	Intentional addition	
동	19	N-tolyl-N'-xylyl-p-phenylenediamine	70290-05-0		
i <u>≅</u>		N,N'-dixylyl-p-phenylenediamine	28726-30-9		
를 [	20	Chlorinated paraffins (C10-13)	85535-84-8	Intentional addition	
ġ [	21	Mirex	2385-85-5	Intentional addition	
<u>a</u>	22	Yellow phosphor	12185-10-3	Intentional addition	
og	23	Toxaphene	8001-35-2	Intentional addition	
Ē	24	Monomethyl-dichloro-diphenyl methane (DBBT)	99688-47-8	Intentional addition	
tai	25	Di-u-oxo-di-n-butyl-stanniohydroxyborane (DBB)	75113-37-0	Intentional addition	
6	26	Monomethyl-tetrahclorodiphenyl-methane	76253-60-6	Intentional addition	
ပ	27	Monomethyl-dichloro-diphenyl-methane	81161-70-8	Intentional addition	
	28	Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)- (UV- 320)	3846-71-7	Intentional addition	
	29	Perfluorooctane sulfonates (PFOS)	I	Intentional addition	*3
Ī	30	Dimethyl fumarate (DMF)	624-49-7	Intentional addition	
	31	Cobalt dichloride	7646-79-9	*4	
	32	Formaldehyde	50-00-0	*5	
	33	Dibutyltin (DBT) compounds	Page 13 Table F	1000ppm *6	Contents
	34	Dioctyltin (DOT) compounds	Page 13 Table G	1000ppm *7	concentration in the weight of the delivered product
	35	Tris(2,3-dibromopropyl)phosphate(TRIS)	126-72-7	Intentional addition	*1
	36	Tris (1-aziridinyl) phosphine oxide(TEPA)	545-55-1	Intentional addition	*1
	37	Hexabromocyclododecane(HBCDD)	Page 14 Table H	Intentional addition	
-					*4
	38	Polycyclic aromatic hydrocarbons(PAH)	Page 14 Table I	1ppm *8	*1
	39	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	1000ppm	Contents
	40	Tris(1-chloro-2-propyl)phosphate (TCPP)	13674-84-5	1000ppm	concentration in the weight of the
	41	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	1000ppm	delivered product
	42	PFOA、PFOA-salts、PFOA-esters	Page 14 Table J	Parts :1000 ppm Coated material: 1µg/m <sup>2</sup>	For parts, contents concentration in the weight of the delivered product.*9
	43	N-Phenyl-benzenamine reaction products with styrene and 2,4,4-trimethylpentene(BNST)	68921-45-9	Intentional addition	

<sup>\*1</sup> Substances that may enter the mouth or directly contact human skin for a long time or short-term repetitive contact.

In cases where the concentration of the material contained in the product or part (reaction-type residue like non-reaction monomer and impurities) exceeds this value, fill Form 4 "Results of Research on Chemicals Contained in Manufactured Goods" on page 27.

Note: The threshold level may be specified independently by the operational division upon customer's request, so please follow what the operational division instructed.

- \*3 Exceptional applications
  - ·Semiconductor photoresist
  - ·Business-use photographic film
- \*4 This applies to humidity indicating chemicals that are intentionally added and used for drying agents (such as silica gel).
- \*5 Intentionally adding this to composite materials (plywood or particle board) is prohibited, as is containing a concentration of 75 ppm or more of fiber or fabric.
- \*6 When the content concentration exceeds the threshold level. The content concentration used is based on tin concentration.
- \*7 This applies to fabric and leather products that might touch human skin .
  - When the content concentration exceeds the threshold value. The content concentration used is based on tin concentration.
- \*8 From July 1, 2015, when the content concentration exceeds the threshold level. The threshold level of the parts used to make toys and childcare products is set to 0.5ppm.
- \*9 Photographic coatings for film, paper or screen and adhesive, foil or tape in semiconductors will be excepted before the end of June 2015.

<sup>\*2</sup> Threshold level

### Annex 5 List of Conditional Containing Prohibition Substances in Goods

(substances prohibited from being

	contained, with some exceptions)	CAS No.	Threshold Level	Remark
1	Cadmium / cadmium compounds*1	Refer to Annex K on	100 ppm	Contents concentration
'	Cadmium / Cadmium compounds	page 14.	тоо ррпп	in homogenous material
2	11	Refer to Annex L on	1000 ppm	Contents concentration
	Hexavalent chromium compounds*1 *2	page 15.	тооо ррпп	in homogenous material
3	Lead / lead compounds *1, *3	Refer to Annex M on	1000 ppm	Contents concentration
3	Lead / lead compounds	page 15.		in homogenous material
4	Mercury / mercury compounds*1	Refer to Annex N on	1000 ppm	Contents concentration
4	Mercury / mercury compounds	page 16.	тооо ррпп	in homogenous material
5	D. I I. I. I. (D) (O) *4	9002-86-2	1000 ppm	Contents concentration
3	Polyvinyl chloride (PVC) *4		тооо ррпп	in homogenous material

<sup>\*1:</sup> The total amount of lead, cadmium, hexavalent chromium and mercury contained in packaging materials shall be less than 100 ppm at weight ratio.

Cadmium / Cadmium Compounds

Cadmium / Cadr	Cadmium / Cadmium Compounds					
	No.	Use of Applications				
Exceptions *5	8(b)	Cadmium and its compounds in electrical contacts.				
(may be	13(b)	Cadmium in filter glasses and glasses used for reflectance standards.				
contained)						

Hexavalent Chromium Compounds

HONGY GIOTIC OTTIC	TOXATAICHE SHIOTHIAIT SOTISSATIAC					
	No.	Use of Applications				
Exceptions *5	9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption				
(may be		refrigerators up to 0,75 % by weight in the cooling solution.				
contained)						

Lead / Lead Compounds

	No.	Use of Applications
Exceptions *5	5(a)	Lead in glass of cathode ray tubes.
(may be	5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight
contained)	6(a)	Lead as an alloying element in steel for machining purposes and in galvanised steel containing
		up to 0,35 % lead by weight.
	6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight.
	6(c)	Copper alloy containing up to 4% lead by weight.
	7(a)	Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead).
	7(c)-l	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in
		capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
	7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher.
	7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC.
		(*6)Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the
		market before 1 January 2013.
	7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or
		discrete semiconductors(*7). Expires on July 1, 2016.
	13(a)	Lead in white glasses used for optical applications.
	13(b)	Lead in filter glasses and glasses used for reflectance standards.
	15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within
		integrated circuit flip chip packages.

Mercury / Mercury Compounds

_IVIOLOGI / / IVIOLOG	.,	podrido
	No.	Use of Applications
Exceptions *5	Mercury	in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special
	purpose	s not exceeding (per lamp).
(may be	3(a)	Short length (≤ 500 mm):3.5 mg may be used per lamp.
contained)	3(b)	Medium length (> 500 mm and ≤ 1 500 mm):5 mg may be used per lamp.
	3(c)	Long length (> 1 500 mm):13 mg may be used per lamp.

Polyvinyl Chloride (PVC)

	No.	Use of Applications
Exceptions	PV1	PVC is required due to a safety standard or for quality retention.
(may be	PV2	There is no substitutable item because of special application or the like.
contained)	PV3	Material is specified based on the customer's requirement.
	PV4	Those which do not contain phthalate compounds.

<sup>\*5:</sup> Exceptions (cadmium, hexavalent chromium, mercury, lead) shall comply with the exceptions of the RoHS directives (2011/65/EU). If a new exception other than those described above is specified, it will be regarded as an exception. Exceptions relating to batteries shall conform to the EU batteries directive(2006/66/EC(2013/56/EU)).

<sup>\*2:</sup> The amount of hexavalent chromium compounds contained in leather parts in contact with the skin shall be less than 3ppm at weight ratio.

<sup>\*3:</sup> The amount of lead contained in PVC cable shall be less than 100 ppm at weight ratio.

<sup>\*4:&</sup>quot;Polyvinyl chloride(PVC)" includes its homopolymer and copolymer.

<sup>\*6:</sup> Application of exceptions is effective if permitted by the division in charge of products.

<sup>\*7:</sup> Discrete semiconductors are the diode also known as individual semiconductors or mono-functional semiconductors. They are a generic term for simple semiconductors such as transistors performing only one function.

# Annex 6 List of Containing Avoidance Substances in Goods (Substances for which containing in

	goods is to be avoided)		CAS No.	Threshold Level	Remark
	1	Arsenic / arsenic compounds	Refer to Annex O on page 16.	1000 ppm or intentional addition	Contents concentration in homogenous material
	2	Beryllium / beryllium compounds*1	Refer to Annex P	1000 ppm or	Contents concentration in
	2	, ,	on page 16.	intentional addition	homogenous material
	3	Pentachlorophenol and its salt	87-86-5	Intentional addition	Contanto concentration in
	4	Nickel / Nickel compounds *2	Refer to Annex Q on page 16.	intentional addition	Contents concentration in homogenous material
	5	Phthalates(DEHP,BBP,DBP,DIBP)*1	Refer to Annex R	1000 ppm or	Contents concentration in
			on page 16. Refer to Annex S	intentional addition	homogenous material Contents concentration in
	6	Radioactive substances	on page 16.	intentional addition	plasticized material
	7	Brominated flame retardants	Refer to Annex T	1000 ppm or	Contents concentration in
		(except PBB,PBDE and HBCDD)	on page 17.	intentional addition	homogenous material
	8	Perchlorate	7791-03-9	Intentional addition	
	9	Red phosphorus *1	7723-14-0	Intentional addition	Except for red phosphorus in the metal
	10	Chlorinated flame retardants	Refer to Annex U on page 17.	In case of (1) or (2) in the remark column.	(1)1000 ppm total chlorine content by weight in the plastic material (2)900 ppm total chlorine content by weight in the laminate
	11	Anthracene	120-12-7		
e.	12	4,4'-methylenedianiline	101-77-9		This is prohibited from being contained in items that might be in direct contact with human skin or the mouth for a long period of time or short-term repetitive contact.
Containing Avoidance	13	Cobalt dichloride 7646-79-9			This is prohibited from being contained in drying agents (such as silica gel).
9	14		1303-28-2		
Ξ	15	Diarsenic trioxide*1	1327-53-3		
ontai	16	Sodium dichromate	7789-12-0 10588-01-9		*3
Ö	17	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2		
	18	Lead hydrogen arsenate	7784-40-9		*3
	19	Triethyl arsenate	15606-95-8		
	20	Anthracene oil	90640-80-5		
	21	Anthracene oil, anthracene paste, distn. lights	91995-17-4		
	22	Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	If the contents concentration	
1	23	Anthracene oil,ānthracene-low	90640-82-7	exceeds 1,000 ppm when the	
1		Anthracene oil, anthracenepaste	90640-81-6	weight of the delivered product	
1		Coal tar pitch, high temperature	65996-93-2	is used as the denominator	
1	26	Aluminosilicate, Refractory Ceramic Fibres	-		
	27	Zirconia Aluminosilicate, Refractory Ceramic Fibres	-		
I	28	2,4-Dinitrotoluene	121-14-2	1	
1		Lead chromate	7758-97-6		*3
	30	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8		*3
	31	C.I. Pigment Yellow 34	1344-37-2		*3
		Acrylamide	79-06-1		0
1		Trichloroethylene	79-00-1		
		Boric acid	10043-35-3 11113-50-1		
	35	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4		
	36	Tetraboron disodium heptaoxide, hydrate	12267-73-1	wait of Clives a secret from an C	

<sup>\*1.</sup> This may be specified as containing prohibition substance, by each business unit of SII upon request from an SII customer. Please follow the instructions made by each business unit.

<sup>\*2.</sup> Except for alloys (such as stainless steel)

<sup>\*3.</sup> This only applies to the exceptions for Lead /Lead Compounds and Hexavalent Chromium Compounds shown under Annex 5 on page 7. For other applications, the requirements under Cadmium/Cadmium Compounds and Lead/Lead Compounds and Hexavalent Chromium Compounds on Annex 5 must be satisfied.

# **Annex 6** List of Containing Avoidance Substances in Goods (continued)

(Substances for which containing in

27	goods is to be avoided)	CAS No.	Threshold Level	Remark
	Sodium chromate	7775-11-3	1	*3
	Potassium chromate	7789-00-6		*3
	Ammonium dichromate	7789-09-5	4	*3
	Potassium dichromate	7778-50-9		*3
	Cobalt(II) sulphate	10124-43-3	1	
	Cobalt(II) dinitrate	10141-05-6	j	
43	Cobalt(II) carbonate	513-79-1		
44	Cobalt(II) diacetate	71-48-7		
45	2-Methoxyethanol	109-86-4		
	2-Ethoxyethanol	110-80-5	1	
	Chromium trioxide	1333-82-0	1	*3
••	Acids generated fromchromium trioxide andtheir		=	
	I = = = = = = = = = = = = = = = = = = =			
	oligomers:	7738-94-5		
48	·Chromic acid	13530-68-2		*3
	Dichromic acid	10000 00 2		
	<ul> <li>Oligomers of chromic acid and dichromic acid</li> </ul>			
49	2-ethoxyethyl acetate	111-15-9		
	strontium chromate	7789-06-2	1	*3
	1,2-Benzenedicarboxylic acid, di-C7-11-branched and		†	
51	linear alkyl esters (DHNUP)*1	68515-42-4		
	וווייכמו מותאו פטנפוט (טרוויוטר)	7000 == -	4	
52	Hydrazine	7803-57-8		
		302-01-2	]	
53	1-methyl-2-pyrrolidone	872-50-4		
	1,2,3-trichloropropane	96-18-4	1	
	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl		1	
55	esters, C7-rich(DIHP)*1	71888-89-6		
	. ,	04040 00 5	4	1.5
	Dichromium tris(chromate)	24613-89-6	4	*3
	Potassium hydroxy-octaoxodizincatedichromate	11103-86-9	1	*3
58	Pentazinc chromate octahydroxide	49663-84-5	j	*3
ΕO	Formaldehyde, oligomeric reaction products with aniline	25214 70 4	1	
59	(technical MDA)	25214-70-4	<u> </u>	
60	Bis(2-methoxyethyl) phthalate(DMEP)*1	117-82-8	1	
			1	This is prohibited from being
٠.	O Marthause Trans. A chairtin			contained in items that might be
61	2-Methoxyaniline;o-Anisidine	90-04-0		direct contact with human skin
			If the contents concentration	mouth for a long period of time
			exceeds 1,000 ppm when the	short-term repetitive contact.
62	4-(1,1,3,3-tetramethylbutyl)phenol,	140-66-9	weight of the delivered	
			_	
	I1 2-Dichloroethane	107-06-2	identification in the second s	
63	1,2-Dichloroethane	107-06-2	product is used as the	
63 64	Bis(2-methoxyethyl) ether	111-96-6	denominator	
63 64 65	Bis(2-methoxyethyl) ether Arsenic acid	111-96-6 7778-39-4	<u> </u>	
63 64 65 66	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate	111-96-6 7778-39-4 7778-44-1	<u> </u>	
63 64 65 66 67	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate	111-96-6 7778-39-4 7778-44-1 3687-31-8	<u> </u>	*3
63 64 65 66 67	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate	111-96-6 7778-39-4 7778-44-1	<u> </u>	
63 64 65 66 67	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate	111-96-6 7778-39-4 7778-44-1 3687-31-8	<u> </u>	*3 This is prohibited from being
63 64 65 66 67	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate	111-96-6 7778-39-4 7778-44-1 3687-31-8	<u> </u>	This is prohibited from being
63 64 65 66 67 68	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)	111-96-6 7778-39-4 7778-44-1 3687-31-8	<u> </u>	This is prohibited from being contained in items that might be
63 64 65 66 67 68	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin
63 64 65 66 67 68	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time
63 64 65 66 67 68	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin
63 64 65 66 67 68 69	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline) Phenolphthalein	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72 73	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72 73	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72 73 74	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72 73	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72 73 74 75	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72 73 74 75	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72 73 74 75 76	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 70 71 72 73 74 75 76 77 78 79	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6 90-94-8	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 70 71 72 73 74 75 76 77 78 79	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6 90-94-8 101-61-1	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6 90-94-8	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6 90-94-8 101-61-1	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base) C.I, Basic Violet 3 [4-[[4-anilino-1-naphthl][4-(dimethylamino) phenyl]	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6 90-94-8 101-61-1 548-62-9	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base) C.I, Basic Violet 3 [4-[[4-anilino-1-naphthl][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene]	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6 90-94-8 101-61-1	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) M,4'-bis(dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base) C.I, Basic Violet 3 [4-[[4-anilino-1-naphth]][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene] dimethylammonium chloride (C.I.Basic Blue 26)	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6 90-94-8 101-61-1 548-62-9	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3
63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83	Bis(2-methoxyethyl) ether Arsenic acid Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) Diboron trioxide Formamide Lead(II) bis(methanesulfonate) TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base) C.I, Basic Violet 3 [4-[[4-anilino-1-naphthl][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene]	111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1 112-49-2 110-71-4 1303-86-2 75-12-7 17570-76-2 2451-62-9 59653-74-6 90-94-8 101-61-1 548-62-9	<u> </u>	This is prohibited from being contained in items that might be direct contact with human skin mouth for a long period of time short-term repetitive contact.  *3 *3 *3 *3 *3

<sup>\*1.</sup> This may be specified as containing prohibition substance, by each business unit of SII upon request from an SII customer. Please follow the instructions made by each business unit.

<sup>\*3.</sup> This only applies to the exceptions for Lead/Lead Compounds and Hexavalent Chromium Compounds shown under Annex 5 on page 7. For other applications, the requirements under Lead/Lead Compounds and Hexavalent Chromium Compounds on Annex 5 must be satisfied.

# Annex 6 List of Containing Avoidance Substances in Goods (continued) (Substances for which containing in goods is to be avoided) CAS No. Threshold Level

	goods is to be avoided)	CAS No.	Threshold Level	Remark
87	Pentacosafluorotridecanoic acid	72629-94-8		
88	Tricosafluorododecanoic acid	307-55-1		
89	Henicosafluoroundecanoic acid	2058-94-8		
90	Heptacosafluorotetradecanoic acid	376-06-7		
	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -			
91	covering well-defined substances and UVCB	-		
٠. ا	substances, polymers and homologues			
	4-Nonylphenol, branched and linear - substances with a			
	linear and/or branched alkyl chain with a carbon			
92	number of 9 covalently bound in position 4 to phenol,	-		
	covering also UVCB- and well-defined substances			
	which include any of the individual isomers or a			
03	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3		
	Cyclohexane-1,2-dicarboxylic anhydride			
94		85-42-7		
	(Hexahydrophthalic anhydride - HHPA)	25550 54 0		
	Hexahydromethylphathalic anhydride,	25550-51-0		
95	Hexahydro-4-methylphathalic anhydride,	19438-60-9		
	Hexahydro-1-methylphathalic anhydride,	48122-14-1		
	Hexahydro-3-methylphathalic anhydride	57110-29-9		
96	Methoxy acetic acid	625-45-6		
	1,2-Benzenedicarboxylic acid, dipentylester, branched			
97	and linear *1	84777-06-0		
ΩĐ	Diisopentylphthalate (DIPP) *1	605-50-5	1	
			1	
	N-pentyl-isopentylphtalate *1	776297-69-9	1	
100	1,2-Diethoxyethane	629-14-1		
101	N,N-dimethylformamide; dimethyl formamide	68-12-2		For the fabric and leather
102	Dibutyltin dichloride (DBT)	683-18-1	If the contents concentration exceeds 1,000 ppm when the	product that might have conta with human skin, the content concentration exceeding 1000 ppm in tin component is prohibited.
103	Acetic acid, lead salt, basic	51404-69-4	weight of the delivered	
104	Lead (II) carbonate basic	1319-46-6	product is used as the	
	Lead oxide sulfate (basic lead sulfate)	12036-76-9	denominator	
	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	denominator	
	Dioxobis(stearato)trilead	12578-12-0		
	Fatty acids, C16-18, lead salts	91031-62-8		
109	Lead bis(tetrafluoroborate)	13814-96-5		*0
110	Lead cynamidate	20027 06 0		
111	Leau cyriainiuale	20837-86-9		*3
111	Lead dinitrate	10099-74-8		3
	Lead dinitrate	10099-74-8		3
112	Lead dinitrate Lead oxide (lead monoxide)	10099-74-8 1317-36-8		3
112 113	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead)	10099-74-8 1317-36-8 1314-41-6		3
112 113 114	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide	10099-74-8 1317-36-8 1314-41-6 12060-00-3		3
112 113 114 115	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2		3
112 113 114 115 116	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6		3
112 113 114 115 116 117	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8		3
112 113 114 115 116 117 118	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8		
112 113 114 115 116 117 118 119	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2		*3
112 113 114 115 116 117 118 119	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8		
112 113 114 115 116 117 118 119 120	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2		*3
112 113 114 115 116 117 118 119 120	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2		*3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4		*3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7		*3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9		*3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124 125	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9		*3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5		*3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1		*3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate Dimethyl sulphate Dimethyl sulphate 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1 143860-04-2		*3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1		*3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate Dimethyl sulphate Dimethyl sulphate 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1 143860-04-2		*3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate Dimethyl sulphate 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-methylenedi-o-toluidine	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1 143860-04-2 88-85-7 838-88-0		*3 *3 *3 *3 *3 *3 This is prohibited from being contained in items that might
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate Dimethyl sulphate Dimethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-oxydianiline and its salts	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1 143860-04-2 88-85-7 838-88-0 101-80-4		*3 *3 *3 *3 *3 *3 This is prohibited from being contained in items that might in direct contact with human s
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate D-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-methylenedi-o-toluidine 4,4'-oxydianiline and its salts 4-Aminoazobenzene; 4-Phenylazoaniline	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1 143860-04-2 88-85-7 838-88-0 101-80-4		*3 *3 *3 *3 *3 *3 *3
112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131	Lead dinitrate Lead oxide (lead monoxide) Lead tetroxide (orange lead) Lead titanium trioxide Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulphate Trilead dioxide phosphonate Furan Propylene oxide; 1,2-epoxypropane; methyloxirane Diethyl sulphate Dimethyl sulphate Dimethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-oxydianiline and its salts	10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1 143860-04-2 88-85-7 838-88-0 101-80-4		*3 *3 *3 *3 *3 *3 This is prohibited from being contained in items that might in direct contact with human sor the mouth for a long period

<sup>\*1.</sup> This may be specified as containing prohibition substance, by each business unit of SII upon request from an SII customer. Please follow the instructions made by each business unit.

<sup>\*3.</sup> This only applies to the exceptions for Lead/Lead Compounds and Hexavalent Chromium Compounds shown under Annex 5 on page 7. For other applications, the requirements under Lead/Lead Compounds and Hexavalent Chromium Compounds on Annex 5 must be satisfied.

# Annex 6 List of Containing Avoidance Substances in Goods (continued) (Substances for which containing in

	goods is to be avoided)	CAS No.	Threshold Level	Remark
135	Biphenyl-4-ylamine	92-67-1		This is prohibited from being contained in items that might be i
136	o-aminoazotoluene	97-56-3		direct contact with human skin or the mouth for a long period of
137	o-Toluidine; 2-Aminotoluene	95-53-4		time or short-term repetitive contact.
138	N-methylacetamide	79-16-3	1	
139	1-bromopropane; n-propyl bromide	106-94-5	1	
	Cadmium	7440-43-9	1	*3
_	Cadmium oxide	1306-19-0	1	*3
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	1	*4
	Dipentyl phthalate(DPP) *1  4-Nonylphenol,branched and linear,ethoxylated [substances with a linear and/or branched alkyl chain	131-18-0		
144	with a carbon number of 9 covalently bound in position 4 to phenol,ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations	-		
145	Cadmium sulphide	1306-23-6		*3
146	Dihexyl phthalat	84-75-3		
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	If the contents concentration exceeds 1,000 ppm when the	
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	weight of the delivered product is used as the denominator	
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	1	
150	Lead di(acetate)	301-04-2	1	*3
	Trixylyl phosphate	25155-23-1	1	
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DIHP) *1	68515-50-4		
153	Cadmium chloride	10108-64-2		*3
154	Sodium perborate; perboric acid, sodium salt	(15120-21-5) (11138-47-9)		
155	Sodium peroxometaborate	7632-04-4	1	
	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1		
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia- 4-stannatetradecanoate (DOTE)	15571-58-1		*5
158	Cadmium fluoride	7790-79-6	1	*3
159	Cadmium sulphate	10124-36-4 31119-53-6		*3
160	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-		*5

<sup>\*1.</sup> This may be specified as containing prohibition substance, by each business unit of SII upon request from an SII customer. Please follow the instructions made by each business unit.

<sup>\*3.</sup> This only applies to the exceptions for Lead /Lead Compounds and Hexavalent Chromium Compounds shown under Annex 5 on page 7. For other applications, the requirements under Cadmium/Cadmium Compounds and Lead/Lead Compounds and Hexavalent Chromium Compounds on Annex 5 must be satisfied.

<sup>\*4</sup> This only applies to the exceptions for the application \*9 shown under Annex 4 on page 6. For other applications, the requirements under PFOA, PFOA-salts, PFOA-esters on Annex 4 must be satisfied.

 $<sup>^{\</sup>star}5$  This is prohibited from being contained in fabric and leather products that might touch human skin .

# **Tables: Compound Details (Main Examples)**

Table	Table A: Asbestos (Containing Prohibition)	
1	Asbestos	1332-21-4
2	Amosite	12172-73-5
3	Crocidolite	12001-28-4
4	Actinolite	77536-66-4
5	Anthophyllite	77536-67-5
6	Chrysotile	12001-29-5
7	Tremolite	77536-68-6

**Table B:** Tri-substituted organostannic compounds (including Tributyl tin and Triphenyl tin) (Containing Prohibition)

		CAS No.
1	Triphenyltin N, N'-dimethyldithiocarbamate	1803-12-9
2	Triphenyltin fluoride	379-52-2
3	Triphenyltin acetate	900-95-8
4	Triphenyltin chloride	639-58-7
5	Triphenyltin hydroxide	76-87-9
		18380-71-7
6	Triphenyltin fatty acid salts (C=9-11)	18380-72-8
U		47672-31-1
		94850-90-5
7	Triphenyltin chloroacetate	7094-94-2
8	Tributyltin methacrylate	2155-70-6
9	Bis (tributyltin) fumarate	6454-35-9
9	tributyttiii) turilarate	24291-45-0
10	Tributyltin fluoride	1983-10-4
10	Tributyitiit liuonde	7304-48-5
11	Bis (tributyltin) 2, 3-dibromosuccinate	31732-71-5
'''	tributyttiii) 2, 3-dibioiniosuccinate	56323-17-2
12	Tributyltin acetate	56-36-0
13	Tributyltin laurate	3090-36-6
14	Bis (tributyltin) phthalate	4782-29-0
15	Coplymer of alkyl(c=8) acrylate, methyl methacrylate and tributyltin methacrylate	67772-01-4
16	Tributyltin sulfamate	6517-25-5
17	Bis (tributyltin) maleate	14275-57-1
18	Tributyltin chloride	1461-22-9
10	Tributyitiri cilionae	24291-45-0
19	Tribut din avalanatana carbanata mivtura	85409-17-2
19	Tributyltin cyclopentane carbonate = mixture	7342-38-3
20	Tributyltin-1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isoplopyl-1,4a-dimethyl-1-phenanthrencarboxylatemix	26239-64-5
21	Tributyltin bromide	1461-23-0
22	Bis(tributan-1-ylstannyl) but-2-enedioate	24291-45-0

Table C: Polybromodiphenyl ethers (PBDE) (Containing Prohibition)		CAS No.
1	Bromodiphenyl ether	101-55-3
2	Dibromodiphenyl ether	2050-47-7
3	Tribromodiphenyl ether	49690-94-0
4	Tetrabromodiphenyl ether	40088-47-9
5	Pentabromodiphenyl ether	32534-81-9
6	Hexabromodiphenyl ether	36483-60-0
7	Heptabromodiphenyl ether	68928-80-3
8	Octabromodiphenyl ether	32536-52-0
9	Nonabromodiphenyl ether	63936-56-1
10	Decabromodiphenyl ether	1163-19-5

Table	<b>D</b> : Polybrominated biphenyls (PBB)(Containing Prohibition)	CAS No.
1	Polybrominated Biphenyls	59536-65-1
2	DibromobiphenylX	92-86-4
3	2-Bromobiphenyl	2052-07-5
4	3-Bromobiphenyl	2113-57-7
5	4-Bromobiphenyl	92-66-0
6	Tribromobiphenyl	59080-34-1
7	Tetrabromobiphenyl	40088-45-7
8	Pentabromobiphenyl	56307-79-0
9	Hexabromobiphenyl	59080-40-9
10	Hexabromo-1,1-biphenyl	36355-01-8
11	Firemaster FF-1	67774-32-7
12	Heptabromobiphenyl	35194-78-6
13	Octabromobiphenyl	61288-13-9
14	Nonabromobiphenyl	27753-52-2
15	Decabromobiphenyl	13654-09-6

# Table E: Azo Compounds(Containing Prohibition)

	Amines from which azo compounds should not be generated due to chemical dissolution	CAS No.
1	o-anisidine	90-04-0
2	2-naphthylamine	91-59-8
3	3,3'-dichlorobenzidine	91-94-1
4	Biphenyl-4-ylamine	92-67-1
5	Benzidine	92-87-5
6	o-toluidine	95-53-4
7	4-chloro-o-toluidine	95-69-2
8	2,4-toluenediamine	95-80-7
9	o-aminoazotoluene	97-56-3
10	5-nitro-o-toluidine	99-55-8
11	4,4'-methylene-bis-(2-chloroaniline)	101-14-4
12	4,4'-methylenedianiline	101-77-9
13	4,4'-oxydianiline	101-80-4
14	p-chloroaniline	106-47-8
15	3,3'-dimethoxybenzidine	119-90-4
16	3,3'-dimethylbenzidine	119-93-7
17	2-methoxi-5-methylaniline	120-71-8
18	2,4,5-trimethylaniline	137-17-7
19	4,4'-thiodianiline	139-65-1
20	4-methoxy-m-phenylenediamine	615-05-4
21	4,4'-methylenedi-o-toluidine	838-88-0
22	4-amino azobenzene	60-09-3

Amine: Hydrogen atom of ammonia was substituted with hydrocarbon group.

Azo compounds: Has an atomic group of "-N=N-." The term "azo" means nitrogen.

Table F: DibutyItin Compounds (DBT) (Containing Prohibition)		CAS No.
1	Dibutyltin oxide	818-08-6
2	Dibutyltin diacetate	1067-33-0
3	Dibutyltin dilaurate	77-58-7
4	Dibutyltin maleate	78-04-6
5	Dibutyltin dichloride	683-18-1
6	Other dibutyltin compounds	_

Table G: Dioctyltin Compounds (DOT) (Containing Prohibition)		CAS No.
1	Dioctyltin Oxide	870-08-6
2	Dioctyltin dilaurate	3648-18-8
3	Dioctyltin dichloride	3542-36-7
4	Dioctyltin maleate	16091-18-2
5	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
6	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-
7	Other dioctyltin compounds	-

Table	CAS No.	
1	Hexabromocyclododecane	25637-99-4
2	1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6
3	rel-(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	134237-50-6
4	rel-(1R,2S,5R,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	134237-51-7
5	rel-(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	134237-52-8
6	rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	4736-49-6
7	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	65701-47-5
8	(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-17-7
9	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-18-8
10	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	138257-19-9
11	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	169102-57-2
12	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-15-5
13	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane	678970-16-6
14	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	678970-17-7

Table	Polycyclic aromatic hydrocarbons(PAH) (Containing Prohibition)	CAS No.
1	Benzo[a]pyrene (BaP)	50-32-8
2	Benzo[e]pyrene (BeP)	192-97-2
3	Benzo[a]anthracene (BaA)	56-55-3
4	Chrysen (CHR)	218-01-9
5	Benzo[b]fluoranthene (BbFA)	205-99-2
6	Benzo[j]fluoranthene (BjFA)	205-82-3
7	Benzo[k]fluoranthene (BkFA)	207-08-9
8	Dibenzo[a,h]anthracene(DBAhA)	53-70-3

Table	CAS No.	
1	perfluorooctanoic acid	335-67-1
2	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
3	Sodium salt of Perfluorooctanoic acid	335-95-5
4	Potassium salt of Perfluorooctanoic acid	2395-00-8
5	Silver(1+) salt of Perfluorooctanoic acid	335-93-3
6	Perfluorooctanoyl fluoride	335-66-0
7	Methyl perfluorooctanoate	376-27-2
8	Ethyl perfluorooctanoate	3108-24-5

Table	CAS No.	
1	Cadmium	7440-43-9
2	Cadmium oxide	1306-19-0
3	Cadmium sulfide	1306-23-6
4	Cadmium chloride	10108-64-2
5	Cadmium sulphate	10124-36-4 31119-53-6
6	Cadmium nitrate	10325-94-7
7	Cadmium nitrate tetrahydrate	10022-68-1
8	Cadmium stearate (cadmium soap)	2223-93-0
9	Cadmium fluoride	7790-79-6
10	Other cadmium compounds	-

Table	<b>L</b> : Hexavalent Chromium Compounds (Conditional Containing Prohibition)	CAS No.
1	Sodium dichromate	10588-01-9
2	Potassium dichromate	7778-50-9
3	Chromium trioxide	1333-82-0
4	Lead (II) chromate	7758-97-6
5	Potassium chromate	7789-00-6
6	Calcium chromate	13765-19-0
7	Barium chromate	10294-40-3
8	Strontium chromate	7789-06-2
9	Zinc chromate	13530-65-9
10	Sodium chromate	7775-11-3
11	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8
12	C.I. Pigment Yellow 34	1344-37-2
13	Ammonium dichromate	7789-09-5
14	Pentazinc chromate octahydroxide	49663-84-5
15	Potassium zinc chromate hydroxide	11103-86-9
16	Dichromium tris(chromate)	24613-89-6
17	Acids generated fromchromium trioxide andtheir oligomers:	7738-94-5 13530-68-2
18	Patassium chlorochromate	16037-50-6
19	Ammonium chromate	7788-98-9
20	Copper chromate	13548-42-0
21	Magnesium chromate	13423-61-5
22	Calcium dichromate	14307-33-6
23	Other hexavalent chromium compounds	-

<u> Table</u>	M: Lead/Lead Compounds (Conditional Containing Prohibition)	CAS No.
1	Lead	7439-92-1
2	Lead (II) carbonate	598-63-0
3	Lead (IV) oxide	1309-60-0
4	Lead (II.IV) oxide	1314-41-6
5	Lead (II) sulfide	1314-87-0
6	Lead (II) oxide	1317-36-8
7	Lead (II) carbonate basic	1319-46-6
8	Lead hydroxidcarbonate	1344-36-1
9	Lead (II) sulfate	7446-14-2
10 11	Lead (II) phosphate Lead (II) chromate	7446-27-7 7758-97-6
12	Lead titanium trioxide	12060-00-3
13	Lead sulfate, sulphuric acid, lead salt	15739-80-7
14	Lead difluoride	7783-46-2
15	Lead dichoride	7758-95-4
16	Lead(II) acetate	301-04-2
17	Lead (II) acetate, trihydrate	6080-56-4
18	Lead selenide	12069-00-0
19	Lead sulphate, tribasic	12202-17-4
20	Lead stearate	1072-35-1
21	Lead hydrogen arsenate	7784-40-9
22	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8
23	C.I. Pigment Yellow 34	1344-37-2
24	Trilead diarsenate	3687-31-8
25	Lead diazide	13424-46-9
26	Lead 2,4,6-trinitro-m-phenylene dioxide	15245-44-0
27	Lead dipicrate	6477-64-1
28	Lead(II) dimethanesulfonate	17570-76-2
29	Other lead compounds	-

	<b>e N</b> : Mercury/Mercury Compounds (Conditional Containing Prohibition)	CAS No.
1	Mercury	7439-97-6
2	Mercury(II) chloride	7487-94-7
3	Mercury(II) oxide	21908-53-2
4	Diethylmercury	627-44-1
5	Phenylmercury chloride	100-56-1
6	Mercuric sulfate	7783-35-9
7	Mercuric nitrate	10045-94-0
8	Mercuric sulfide	1344-48-5
9	Mercuric chloride	33631-63-9
10	Dimercury sulphate	7783-36-0
11	Mercury difulminate	628-86-4
12	Mercury diacetate	1600-27-7
13	Other mercury compounds	-
Tabl	e O: Arsenic / Arsenic Compounds (Containing Avoidance)	CAS No.
1	Arsenic	7440-38-2
2	Gallium arsenide	1303-00-0
3	Calcium arsenite	27152-57-4
4	Potassium arsenite	10124-50-2
5	Potassium arsenate	7784-41-0
6	Other arsenate compounds	-
Tahl	e P: Beryllium /Beryllium Compounds (Containing Avoidance)	CAS No.
1	Beryllium	7440-41-7
2	Beryllium-aluminum alloy	12770-50-2
3	Beryllium chloride	7787-47-5
4	Beryllium fluoride	7787-49-7
5	Beryllium hydroxide	13327-32-7
6	Beryllium oxide	1304-56-9
7	Beryllium phosphate	13598-15-7
8	Beryllium sulfate	13510-49-1
9	Beryllium sulfate tetrahydrate	7787-56-6
10	Beryl ore	1302-52-9
11	IBervillum copper	
	Beryllium copper Other beryllium copper	11108-64-8
12	Other beryllium compounds	-
12	Other beryllium compounds	-
12		CAS No.
12	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel	-
12 <b>Tabl</b>	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)	- CAS No. 7440-02-0
12 <b>Tabl</b> 1 2	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel  Nickel carbonyl	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3
12 <b>Tabl</b> 1 2 3 4 5	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate	- CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4
12 <b>Tabl</b> 1  2  3  4  5  6	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel sulfide	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3
12 <b>Tabl</b> 1 2 3 4 5	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4
12 <b>Tabl</b> 1 2 3 4 5 6 7	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Other nickel compounds	- CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2
12 Tabl 1 2 3 4 5 6 7 Tabl	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)	- CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No.
12 Tabl 1 2 3 4 5 6 7 Tabl 1	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7
12  Tabl  1 2 3 4 5 6 7  Tabl  1 2 3	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5
12  Tabl  1 2 3 4 5 6 7  Tabl  1 2 3	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP)  Dibutyl phthalate(DBP)  Diisobutyl phthalate(DIBP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 4 5 4 4 5 6 7	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 4 5 4 4 5 6 7	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP)  Dibutyl phthalate(DBP)  Diisobutyl phthalate(DIBP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 5 6 6 7	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance) Bis (2-ethyl(hexyl)phthalate) (DEHP) Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate (DINP)  Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 5 7	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)  Di-n-octyl phthalate (DNOP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 5 6 7 8	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Dicyclohexyl phthalate(DCHP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 84-61-7
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 5 7	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)  Di-n-octyl phthalate (DNOP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 5 6 7 8 9	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DIBP) Diisobutyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Dicyclohexyl phthalate(DCHP) Diisooctyl phthalate(DIOP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 84-61-7 27554-26-3
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 5 6 7 8 9	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Dicyclohexyl phthalate(DCHP) Diisooctyl phthalate(DIOP)  e S: Radioactive substances (Containing Avoidance)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 84-61-7 27554-26-3 CAS No.
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 5 7 Tabl 9	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DIBP) Diisobutyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Dicyclohexyl phthalate(DCHP) Diisooctyl phthalate(DIOP)	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 84-61-7 27554-26-3
12  Tabl  1 2 3 4 5 6 7  Tabl  1 2 3 4 5 7  Tabl  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel oxide Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate (DINP)  Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)  Di-n-octyl phthalate (DNOP) Dicyclohexyl phthalate(DCHP) Diisooctyl phthalate(DIOP)  e S: Radioactive substances (Containing Avoidance) Uranium-238	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 84-61-7 27554-26-3 CAS No. 7440-61-1
12 Tabl 1 2 3 4 5 6 7 Tabl 1 2 3 4 5 7 Tabl 1 2 3 4 5 6 7 8 9	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP)  Dibutyl phthalate(DBP)  Diisobutyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)  Di-n-octyl phthalate (DNOP)  Dicyclohexyl phthalate(DCHP)  Diisooctyl phthalate(DIOP)  e S: Radioactive substances (Containing Avoidance)  Uranium-238  Radon	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 84-61-7 27554-26-3  CAS No. 7440-61-1 10043-92-2 14596-10-2 7440-29-1
12  Tabl  1 2 3 4 5 6 7  Tabl  1 2 3 4 5 6 7  Tabl  1 2 3 4 5 6 7 8 9  Tabl  1 3 4 5 6	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Dicyclohexyl phthalate(DCHP) Diisooctyl phthalate(DIOP)  e S: Radioactive substances (Containing Avoidance) Uranium-238 Radon Americium-241 Thorium-232 Cesium-137	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 84-61-7 27554-26-3  CAS No. 7440-61-1 10043-92-2 14596-10-2 7440-29-1 10045-97-3
12 Tabl 1 2 3 4 5 6 7 Tabl 2 3 4 5 6 7 Tabl 1 2 3 4 5 6 7 8 9 Tabl 1 3 4 5	Other beryllium compounds  e Q: Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Other nickel compounds  e R: Phthalates (Containing Avoidance)  Bis (2-ethyl(hexyl)phthalate) (DEHP)  Benzyl butyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate(DIBP) Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Dicyclohexyl phthalate(DCHP) Diisooctyl phthalate(DIOP)  e S: Radioactive substances (Containing Avoidance) Uranium-238 Radon Americium-241 Thorium-232	CAS No. 7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 - CAS No. 117-81-7 85-68-7 84-74-2 84-69-5 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 84-61-7 27554-26-3  CAS No. 7440-61-1 10043-92-2 14596-10-2 7440-29-1

 Table T:
 Brominated Flame Retardant (Excluding PBB ,PBDE and HBCDD)

	: Brominated Flame Retardant (Excluding PBB ,PBDE and HBCDD)	0.4.0.1.1
	(Containing Avoidance)	CAS No.
1	Poly (2, 6-dibromo-phenylene oxide)	69882-11-7
2	Tetra-decabromo-diphenoxy-benzene	58965-66-5
3	1, 2-Bis (2, 4, 6-tribromo-phenoxy) ethane	37853-59-1
4	3, 5, 3', 5'-Tetrabromo-bisphenol A (TBBA)	79-94-7
5	TBBA, unspecified	30496-13-0
6	TBBA-epichlorhydrin oligomer	40039-93-8
7	TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
8	TBBA carbonate oligomer	28906-13-0
9	TBBA carbonate oligomer, phenoxy end capped	94344-64-2
10	TBBA carbonate oligomer, 2, 4, 6-tribromo-phenol terminated	71342-77-3
11	TBBA-(2, 3-dibromo-propyl-ether)	21850-44-2
12	TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
13	TBBA-bis-(allyl-ether)	25327-89-3
14	TBBA-dimethyl-ether	37853-61-5
15	Tetrabromo-bisphenol S	39635-79-5
16	TBBS-bis-(2, 3-dibromo-propyl-ether)	42757-55-1
17	2, 4-Dibromo-phenol	615-58-7
18	2, 4, 6-tribromo-phenol	118-79-6
19	Pentabromo-phenol	608-71-9
20	2, 4, 6-Tribromo-phenyl-allyl-ether	3278-89-5
21	Tribromo-phenyl-allyl-ether, unspecified	26762-91-4
22	Tetrabromo-chyclo-octane	31454-48-5
23	1, 2-Dibromo-4-(1, 2 dibromo-ethyl)-cyclo-hexane	3322-93-8
24	Tetrabromo phthalic-anhydride	632-79-1
25	1, 3-Butadiene homopolymer, brominated	68441-46-3
26	2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	
27	2, 3-Dibromo-2-butene-1, 4-diol	20566-35-2 3224-02-4
28	· · · · · · · · · · · · · · · · · · ·	3296-90-0
29	Dibromo-neopentyl-glycol Dibromo-propanol	96-13-9
30	Tribromo-neopentyl-alcohol	36483-57-5
31		57137-10-7
	Poly tribromo-styrene	
32 33	Tibromo-styrene	61368-34-1
34	Poly-dibromo-styrene	31780-26-4
	Bromo-/Chloro-paraffins	68955-41-9
35	Bromo-/Chloro-alpha-olefin Vinylbromide	82600-56-4
36		593-60-2
37	Tris-(2, 3-dibromo-propyl)-isocyanurate	52434-90-9
38	Tris (2, 4-Dibromo-phenyl) phosphate	49690-63-3
39	Tris (tribromo-neopentyl) phosphate	19186-97-1
40	Pentabromo-toluene	87-83-2
41	Pentabromo-benzyl bromide	38521-51-6
42	Pentabromo-benzyl-acrylate, monomer	59447-55-1
43	Pentabromo-benzyl-acrylate, polymer	59447-57-3
44	TBBA-bisphenol A-phosgene polymer	32844-27-2
45	Brominated epoxy resin end-capped with tribromophenol	139638-58-7
46	Bis (methyl) tetrabromo-phtalate	55481-60-2
47	Bis (2-ethlhexyl) tetrabromo-phtalate	26040-51-7
48	TBPA, glycol-and propylene-oxide esters	75790-69-1
49	N, N'-Ethylene-bis-(tetrabromo-phthalimide)	32588-76-4
50	Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0
51	Chlorinated and brominated phosphate esther	125997-20-8
52	Tribromo-bisphenyl-maleinimide	59789-51-4
53	TBPA Na salt	25357-79-3
54	Decabromo-diphenyl-ethane	84852-53-9
55	Dibromo-styrene grafted PP	171091-06-8
56	Octabromo-1,1,3-trimethyl-1-phenylindane (FR-1808)	155613-93-7
57	Brominated epoxy resin end-capped with tribromophenol	135229-48-0
58	Other brominated flame retardants	

Table U: Chlorinated Flame Retardants (Excluding Short-chain chlorinated paraffins)

	(Containing Avoidance)	CAS No.
1	Tetrakis(2-chloroethyl)dichloroisopentyldiphosphate	38051-10-4
2	Tris(2,3-dichloro-1-propyl)phosphate	66108-37-0
3	Other chlorinated flame retardants	-

A	oplicable Standards and oplications of Restricted hemical Substances	Ozone Layer Protection Law	Global Warming Prevention Law	Volatile Organic Compounds	EU Directives	
Use	Prohibition Substances					End Use Applications
1	1,1,1-trichloroethane	UP			0	Detergents, solvents
2	CFC group	UP				Washing agents, coolants, forming
						agents
	HBFC group	UP				Extinguishants
4	Halon group	UP				Extinguishants, washing agents
5	Bromochloromethane	UP				Solvents, Extinguishants
6	Tetrachloroethylene			0		Solvents
7	Benzene			0	0	Solvents, washing agents
8	Pentachloroethane				0	Solvents, washing agents
9	1,1,1,2-tetrachloroethane				0	Solvents
10	Hexachloroethylene				0	Solvents
11	Methyl bromide	0				Soil fumigants
12	Carbon tetrachloride	UP				Solvents, washing agents
13	1,1,2,2-tetrachloroethane				0	Solvents, washing agents
14	1,1,2-trichloroethane			0	0	Solvents
15	1,1-dichloroethylene			0	0	Solvents
Use	e Avoidance Substances	(A)	(B)	(C)	(D)	End Use Applications
1	1,2-dichloroethane			0		Solvents, washing agents
2	1,2-dichloroethylene			0		Solvents, washing agents
3	1,3-dichloropropene			0		Soil fumigants
4	HCFC group	0				Washing agents
5	HFC group		0			Washing agents, coolants
6	PFC group	1	Ö			Washing agents, coolants
7	Dichloromethane			0		Solvents, washing agents
8	Cis-1,2-dichloroethylene			0		Solvents, washing agents
9	Trichloroethylene			0	0	Washing agents
10	Nitrous oxide		0			Anaesthetics for medical treatments
11	Sulfur hexafluoride		0			Etching gas, insulated gas
12	Chloroform			0	0	Solvents, anaesthetics

(B)

(C)

(D)

(A) Ozone Layer Protection Law

- UP: Relevant to II of Annexes A, B and C attached to the Montreal Protocol
- O: Relevant to I of Annex C and I of Annex E attached to the Montreal Protocol

(B) Global Warming Prevention Law O: Appropriate substances

- (C) Volatile Organic Compounds
- Relevant to volatile organic compounds which might cause soil pollution (SII Standards)
- (D) EU Regulations
- O: Relevant to REACH Regulation or RoHS Directives

Supplementary Explanation Ozone Layer Protection Law:

Sets forth measures including production control, emission restraint and use rationalization of specified ozone depleting substances. Production of specific fluorine and halon is prohibited; HCFC will also be prohibited step by step.

Global Warming Prevention Law:

Restricts emissions of greenhouse gases, such as CO<sub>2</sub> and PFC for global warming prevention.

Occupational Safety and Health

Sets forth measures for workers to ensure their safety and health and build up their comfortable working environment. It also lays down chemical substances whose manufacture should be prohibited or allowed and whose indication should be imposed.

Chemical Substances **Examination and Manufacture** Restriction Law:

Prevents contamination of the environment by chemical substances that might damage health. Manufacture and import of new chemical substances should be examined for their decomposition level under this law and use restraint rules should be set forth in this law.

Special Chemical Substances Regulations:

Rules defined in the Occupational Safety and Health Law to prevent workers' health disturbance, such as dermatitis and neuropathy. Confirmation of toxicity of substances to be used, measures for improvement of related facilities to minimize the term and the extent of exposure to chemical substances are set forth herein.

Pollutant Release Transfer Registers (PRTR) Law:

Sets forth rules and regulations to confirm and report emissions of substances into the air and submit material safety data sheet information with the aim of promoting voluntary control of chemical substances and preventing environmental conservation-related issues.

**EU** Regulations **REACH Regulation** 

This regulation pertains to the registration, evaluation, approval, and restriction of chemical substances. This regulation restricts the sale and use of chemical substances that are carcinogenic, mutagenic, or otherwise harmful, and the regulation also requires that information be submitted for any article containing more than 1,000 ppm of an SVHC (substance of very high concern).

RoHS (2011/65/EU):

Specifies containing prohibition instructions of toxic substances in electric and electronic products. Specific hazardous chemical substances (lead, mercury, cadmium, hexavalent chromium, polybrominate biphenyls (PBB), and polybrominated diphenyl ethers (PBDE))

		ccupational afety and Health aw		pecial Chemical ubstance equlation	RTR Law	J Directives	
_		alth	aw	ical			
Cor	ntaining Prohibition Substances						End Use Applications
	4-nitrobiphenyl and its salt	MP			1		Synthetic intermediates
	DDT		1		0.1	_	Antiseptics, fungicides, paints
	Asbestos			2	S1	0	Adiabators, insulators, bulking agents
	Aldrin (HCB)		1				Antiseptics, fungicides, paints
5 6	Endrin		1				Antiseptics, fungicides, paints
7	Chlordane		1				Adhesives, paints Antiseptics, fungicides, paints
8	Dieldrin  Die/chloremethyllysther	MP	- 1				1 / 0 /1
	Bis(chloromethyl) ether	MP	1				Insecticides Antiseptics, paints, pigments
9	Tributyl tin oxide(TBTO)						Aritiseptics, pairits, pigments
10	Tri-substituted organostannic compounds (including Tributyl tin and Triphenyl tin)					0	Fungicides,antiseptics,paints,pigments
	Hexachloro benzene (HCB)		1				Disinfectants, antirust
12	Polychlorinated naphthalene		1				Lubricants, paints
L	(3 or more chlorine)						
	Polychlorobiphenyls (PCB)		1		1	0	Insulation oil, lubricants
	Polychlorinated terphenyls (PCT)					0	Insulation oil, lubricants
	Polybrominated diphenylethers group (PBDE)					0	Fire retardant
	Polybrominated biphenyls group (PBB)					0	Fire retardant
	Azo compounds						Pigments,dyes
18	2,4,6-Tri-tert-butylphenol		1				Antioxidants
19	N,N'-ditolyl-p-phenylenediamine N-toly-N'-xylyl-p- phenylenediamine N,N'-dixylyl-p-phenylenediamine		1				Antioxidants, lubricants
20	Chlorinated paraffins (C10-13)					0	Plasticizer, fire retardant
	Mirex		1				Fire retardant
22	Yellow phosphor	MP					Lucifer
	Toxaphene		1				Insecticide
24	Monomethyl-dichloro-diphenyl methane (DBBT)					0	Insulation oil, lubricants
25	Di-u-oxo-di-n-butyl-stanniohydroxyborane (DBB)					0	Insulation oil, lubricants
26	Monomethyl-tetrahlorodiohenyl-methane					0	Insulation oil, lubricants
27	Monomethyl-dichloro-diphenyl-methane					0	Insulation oil, lubricants
28	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dim		1				Ultraviolet rays inhibitor
	ethylethyl)- (UV-320)		'				Olliaviolet rays Illilibitor
29	Perfluorooctane sulfonates (PFOS)		1			0	surface-active agent, paints
	Dimethyl fumarate (DMF)					0	Insecticide,fungicides
	Cobalt dichloride					0	Water indicator in desiccants
	Formaldehyde				1		Antiseptics,
	Dibutyltin (DBT) compounds						PVC stabilizer and catalysts for curing silicone
	Dioctyltin (DOT) compounds					0	resins and polyurethane resins.
	Tris(2,3-dibromopropyl)phosphate(TRIS)					0	Fire retardant
	Tris (1-aziridinyl) phosphine oxide(TEPA)					0	Fire retardant
37	Hexabromocyclododecane(HBCDD)					0	Fire retardant
	Polycyclic aromatic hydrocarbons(PAH)						Antiseptics, lubricants
	Tris(2-chloroethyl)phosphate (TCEP) *1					0	Fire retardant,lubricants
	Tris(1-chloro-2-propyl)phosphate (TCPP) *1						Fire retardant
	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) *1						Fire retardant
42	PFOA, PFOA-salts, PFOA-esters					0	surface-active agent, paints
43	N-Phenyl-benzenamine reaction products with styrene and 2,4,4-trimethylpentene(BNST) *2						Antioxidants
	*1U						

Cor	nditional containing Prohibition Substances	(A)	(B)	(C)	(D)	(E)	End Use Applications
1	Cadmium / cadmium compounds			2	S1	0	Pigments, stabilizers, contact materials
2	Hexavalent chromium compounds				S1	0	Pigments, ink
3	Mercury / Mercury compounds			2	1	0	Electrodes
4	Lead / Lead compounds				1	0	Pigments, stabilizers, rubber stiffening agents
5	Polyvinyl chloride (PVC) *3						Cable coating, plastic resins

<sup>\*3</sup> Polyvinyl chloride is a substance that has been independently classified by SII into conditional containing prohibition.

- (A) Occupational Safety and Health Law
  - MP: Manufacture Prohibition Substances
  - MA: Manufacture Allowed Substances
- (B) Chemical Substances Examination and Manufacture Regulations
  1: Type I Special Chemical Substances
- Type I Special Chemical Substances
   Special Chemical Substances Regulations
   Classification I Substances 2; Classification II Substances 3; Classification III Substances 3
   N: Upon emissions or discharge of those substances, a disposal system is needed.
- (D) PRTR Law

  - 1: Classification 1-Designated Chemical Substances
    S1: Special Classification1-Designated Chemical Substances
    2: Classification 2-Designated Chemical Substances
- (E) EU Directives
  - O: Relevant to REACH Regulation or RoHS Directives

		(A)	(B)	(C)	(D)	(E)	
Con	taining Prohibition Substances	Occupational Safety and Health Law	Cnemical Substance Examination Law	Special Chemical Substance Regulation	PRTR Law	EU Directives	End Use Applications
		₹				_	• • • • • • • • • • • • • • • • • • • •
1	Arsenic / arsenic compounds			2	S1	0	Semiconductors, catalysts, pigments
2	Beryllium / beryllium compounds	MA		1	S1		Ceramic materials, catalysts
3	Pentachlorophenol and its salt			2	1	0	Insecticides
4	Nickel compounds				1		Pigments, paints
5	Phthalic ester						Plasticizer, pigments, paints
6	Radioactive material			1			Optical characteristic
7	Brominated flame retardants					0	Fire retardant
8	perchlorate **						
$\vdash$	•						Lithium primary batteries
9	Red phosphorus						Fire retardant
10	Chlorinated flame retardants						Fire retardant
11	Anthracene					0	Material of crude carbon black, insecticides, wood preservatives,
12	4,4'-methylenedianiline					0	pesticides, plant growth regulators Epoxy resin curing agents, adhesive curing agents
							Water indicator in desiccants, ammonia gas absorbent, gas
13	Cobalt dichloride					0	masks
	Diarsenic pentaoxide					0	Dye, metallurgy, industrial special glass, wood preservatives
15	Diarsenic trioxide					0	Glass and enamel bleaching, special glass cleaner and oxidizer Used to produce chromium compounds (chromium sulfate) and
16	Sodium dichromate					0	inorganic chromium acid pigment
17	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)					0	Fragrance
18	Lead hydrogen arsenate					0	Pesticides,chemical weapons, wood preservatives
19	Triethyl arsenate					0	Pesticides, wood preservatives
20	Anthracene oil					0	Antiseptic, waterproof material. Used to produce other substances such as anthracene and carbon black
				1			Antiseptic, waterproof material. Used to produce other
21	Anthracene oil, anthracene paste, distn. lights					0	substances such as anthracene and carbon black
22	Anthracene oil, anthracene paste,anthracene fraction					0	Antiseptic, waterproof material. Used to produce other substances such as anthracene and carbon black
23	Anthracene oil,anthracene-low					0	Antiseptic, waterproof material. Used to produce other
	7 Williadone dil,animadone low						substances such as anthracene and carbon black
24	Anthracene oil, anthracenepaste					0	Antiseptic, waterproof material. Used to produce other substances such as anthracene and carbon black
	0 14 3 1 1 1 1 1						Electrode, molding material for carbon products, insulation filler,
25	Coal tar pitch, high temperature					0	binder for briquette
26	Aluminosilicate, Refractory Ceramic Fibres					0	Substitute materials of the asbestos such as insulation materials
27	Zirconia Aluminosilicate, Refractory Ceramic Fibres					0	Substitute materials of the asbestos such as insulation materials
28	2,4-Dinitrotoluene					0	Dye, used to produce toluene diisocyanate which is a raw
29	Lead chromate					0	material of plasticized polyurethane foamed material Pigment, bleach
	Lead chromate molybdate sulfate red						Additive plasticizers and viscocity regulator which provide
30	(C.I. Pigment Red 104)						flameproofness to acrylic resin, polyurethane, polyvinyl chloride
	(O.I. Fighteric roat)						and other polymer, lubricant additives
31	C.I. Pigment Yellow 34					0	Raw material for synthetic resin paints, inks, rubber
32	Acrylamide					0	Paper strengthening agents, fiber processing agents, processing agents for increasing adhesiveness, acrylamide thermosetting paint synthesis materials, coagulants, and soil improving agents
33	Trichloroethylene					0	Metal part cleaning and removal, solvents in adhesives, etc.
34	Boric acid					0	Pesticides, personal care products, food additives, glass, ceramic, rubber, flame retardants, etc.
35	Disodium tetraborate, anhydrous					0	Glass, glass fiber, ceramic, detergents, cleaners, personal care
36	Tetraboron disodium heptaoxide, hydrate					0	products, industrial fluids, adhesives, etc.
37	Sodium chromate					0	Laboratories (chemical reagents) and other chrome compound manufacturing
38	Potassium chromate					0	Leather product tanning, metal processing and coating, pigment/ink manufacturing, etc.
39	Ammonium dichromate					0	Leather product tanning, oxidants, photo sensitive screen (CRT) manufacturing, etc.
40	Potassium dichromate					0	Leather tanning, metal processing and coating, and photolithography

(A) (B) (C) (D) (E)

- (A) Occupational Safety and Health Law
- MP: Manufacture Prohibition Substances
   MA: Manufacture Allowed Substances
   MA: Manufacture Allowed Substances
   (B) Chemical Substances Examination and Manufacture Regulations
   1: Type I Special Chemical Substances
   (C) Special Chemical Substances Regulations
   1: Classification I Substances 2: Classification II Substances 3:
- - Classification I Substances 2; Classification II Substances 3; Classification III Substances 3
     Upon emissions or discharge of those substances, a disposal system is needed.
- (D) PRTR Law
  - 1: Classification 1-Designated Chemical Substances
  - S1: Special Classification1-Designated Chemical Substances
  - 2: Classification 2-Designated Chemical Substances
- (E) EU Directives
  - O: Relevant to REACH Regulation or RoHS Directives

<sup>\*</sup> Perchlorate is regulated by the California DTSC (Department of Toxic Substances Control).

		Occupational Safety and Health Law	Chemical Substance Examination L	Special Chemical Substance Regulation	PRTR Law	EU Directives	
	taining Prohibition Substances	Safe	a ₩	nical			
	tinued)	эtу					End Use Applications
	Cobalt(II) sulphate Cobalt(II) dinitrate					0	Surface treatment agents, anticorrosives, pigments Surface treatment agents, catalysts
	Cobalt(II) carbonate					Ö	Adhesives, pigments
	Cobalt(II) diacetate					Ŏ	Surface treatment agents, dyes, rubber adhesion
45	2-Methoxyethanol					0	Solvents, fuel additive
	2-Ethoxyethanol					0	Solvents
47	Chromium trioxide					0	Metal surface treating agents, antiseptics
48	Acids generated fromchromium trioxide andtheir oligomers:  ·Chromic acid  ·Dichromic acid  ·Oligomers of chromic acid and dichromic acid						Metal surface treating agents,antiseptics
	2-ethoxyethyl acetate					0	Solvents
50	strontium chromate					0	Anticorrosives
51	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)					0	PVC plasticizers
	Hydrazine					0	Fire retardant,
53	1-methyl-2-pyrrolidone					0	Solvents for paint dried at high temperature and washing agents Intermediates for insecticides and intermediates for chlorinated
54	1,2,3-trichloropropane 1,2-Benzenedicarboxylic acid, di-C6-8-branched					0	intermediates for insecticides and intermediates for chlorinated solvents
55	alkyl esters, C7-rich(DIHP)					0	PVC plasticizers, bulking agents, and ink plasticizers
	Dichromium tris(chromate) Potassium hydroxy-octaoxodizincatedichromate					0	Metal surface treatment chemical Coating films and sealants
	Pentazinc chromate octahydroxide					0	Coating films and sealants  Coating films and paints
59	Formaldehyde, oligomeric reaction products with aniline (technical MDA)					0	Epoxy resin curing agents
	Bis(2-methoxyethyl) phthalate(DMEP)					0	Plasticizers for paint and varnish
61	2-Methoxyaniline;o-Anisidine					0	Colored paper and dye
62	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)					0	Mainly used in the manufacture of polymer preparations and of ethoxylates.
	1,2-Dichloroethane Bis(2-methoxyethyl) ether					0	Solvents
	Arsenic acid					0	Solvents for chemical reaction and battery electrolytes Fining agents to disperse air bubbles in glass
	Calcium arsenate					ŏ	Chemical for separation of nickel from molten copper
	Trilead diarsenate					Õ	Product from refining and smelting of non-ferrous metals
68	N,N-dimethylacetamide (DMAC)					Ö	Solvents, paints, and ink remover
	4,4'-methylene-bis-(2-chloroaniline)					0	Curing agents for polyurethane resins
	Phenolphthalein					0	Indicator in medical use and pH indicator
71	Lead azide Lead diazide					0	Detonator
72 73	Lead styphnate Lead dipicrate					0	Explosive and detonator  Detonator
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)					0	Solvents and auxiliary agents in processing
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)					0	Solvents and electrolytes for lithium ion battery
76	Diboron trioxide					0	Glass, ceramics, and fire retardant
77	Formamide					0	Solvents, reagents, and plasticizers
78	Lead(II) bis(methanesulfonate)	<u> </u>	<u> </u>			0	Chemicals for plating of electronic parts
79	TGIC (1.3.5-tris(oxiranylmethyl)-1,3,5-triazine- 2,4,6(1H,3H,5H)-trione)					0	Resin curing agents and ink for printed-circuit board
80	β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)					0	Resin curing agents and ink for printed-circuit board
81	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)					0	Dyes, pigments
82	N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base)					0	Dyes
83	C.I, Basic Violet 3					0	Chemicals for dyeing of paper and ink for jet printing and ballpoint pen
84	[4-[[4-anilino-1-naphth]][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene] dimethylammonium chloride (C.I.Basic Blue 26)					0	Chemicals for dyeing of paper, packaging material, and fabric and coloring of resin
85	$\alpha,\alpha\text{-Bis}[4\text{-}(\text{dimethylamino})\text{ phenyl}]\text{-}4 \text{ (phenylamino)}$ naphthalene-1- methanol (C.I.Solvent Blue 4)					0	Dyes, inks

- (A) Occupational Safety and Health Law
  - MP: Manufacture Prohibition Substances
  - MA: Manufacture Allowed Substances
- (B) Chemical Substances Examination and Manufacture Regulations
  - 1: Type I Special Chemical Substances
- (C) Special Chemical Substances Regulations
   1: Classification I Substances 2; Classification II Substances 3; Classification III Substances 3
   N: Upon emissions or discharge of those substances, a disposal system is needed.
- (D) PRTR Law
  - 1: Classification 1-Designated Chemical Substances
  - S1: Special Classification1-Designated Chemical Substances
    2: Classification 2-Designated Chemical Substances
- (E) EU Directives
  - O: Relevant to REACH Regulation or RoHS Directives

Con	taining Prohibition Substances	Occupational Safety and Health Law	Chemical Substance Examination Law	Special Chemica Substance Regulation	PRTR Law	EU Directives	
	taining Prohibition Substances stinued)	Safet v	a <b>∀</b>	cal			End Lica Applications
	4,4'-bis(dimethlamino)- 4"-(methylamino)trityl alchol	₹				0	End Use Applications  Dyes, inks
	Pentacosafluorotridecanoic acid					0	Production of the fluoric resin and additive, surfactant
	Tricosafluorododecanoic acid					0	Production of the fluoric resin and additive, surfactant
	Henicosafluoroundecanoic acid					0	Production of the fluoric resin and additive, surfactant
90	Heptacosafluorotetradecanoic acid 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -					0	Production of the fluoric resin and additive, surfactant
91	covering well-defined substances and UVCB substances, polymers and homologues					0	Water paint
92	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof					0	Antioxidants,plasticizer,paints,printing ink
93	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))					0	Synthetic resin rubber blowing agent, bleach catalysts, cement fillers, colorants, bleach photo
94	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)					0	Plasticizer for the thermoplastic resin, curing agent for epoxy resins, insecticides, anticorrosives
95	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride					0	Plasticizer for the thermoplastic resin, curing agent for epoxy resins, insecticides, anticorrosives
96	Methoxy acetic acid					0	Synthetic intermediates, anticorrosives
97	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear					0	Laboratories (chemical reagents)
	Diisopentylphthalate (DIPP) N-pentyl-isopentylphtalate					0	PVC plasticizers,pesticides Plasticizer
	1,2-Diethoxyethane					0	Paint solvent,inks
	N,N-dimethylformamide; dimethyl formamide					0	Solvents, washing agents
	Dibutyltin dichloride (DBT)					0	Rubber additive,pvc stabilizers
	Acetic acid, lead salt, basic				1	0	Anticorrosive pigment
	Lead (II) carbonate basic				1	0	Pigments, paints,pvc stabilizers
105	Lead oxide sulfate (basic lead sulfate)				1	0	Battery electrode materials,phosphor
106	[Phthalato(2-)]dioxotrilead				1	0	PVC stabilizers
107	(dibasic lead phthalate)				4	0	DVC stabilizara
	Dioxobis(stearato)trilead Fatty acids, C16-18, lead salts				1	0	PVC stabilizers PVC stabilizers
	Lead bis(tetrafluoroborate)				1	Ö	Solder plating, alloy plating, electroplating electrolyte
110	Lead cynamidate				1		Anticorrosive pigment
111	Lead dinitrate				1	0	Pigments
112	Lead oxide (lead monoxide)				1	0	PVC stabilizers, optical glass, pigments, paints, storage battery plates, vulcanization accelerator, pottery, enamel, glass general
	Lead tetroxide (orange lead)				1	0	Paints, optical glass, general glass, ceramics, enamel, battery, pigments, rubber, pharmaceutical, plastics, electronic materials  Electronic ceramic material
	Lead titanium trioxide		1		1	0	Electronic ceramic material  Electronic ceramic material, Piezoelectric devices, Piezoelectric
	Lead Titanium Zirconium Oxide				1	0	buzzers
-	Pentalead tetraoxide sulphate		1		1	0	PVC stabilizers
-	C.I. Pigment Yellow 41	-	<del>                                     </del>		1	0	Pigments
	Silicic acid, barium salt, lead-doped		<b>!</b>			0	Lamp fluorescent material
	Silicic acid, lead salt		<b>!</b>		1	0	Glass materials
	Sulfurous acid, lead salt, dibasic		-		1	0	PVC stabilizers
	Tetraethyllead	<u> </u>	<b>!</b>		1	0	Gasoline additive
	Tetralead trioxide sulphate	<u> </u>	<b>!</b>	-	1	0	Battery electrode material, PVC stabilizer
$\vdash$	Trilead dioxide phosphonate		1		1	0	PVC stabilizer
$\vdash$	Furan					0	Solvent
	Propylene oxide; 1,2-epoxypropane; methyloxirane					0	Pigments, pharmaceuticals, fungicides
	Diethyl sulphate		<u> </u>			0	Dyes, pharmaceuticals, agrochemicals, fine chemicals
127	Dimethyl sulphate					0	Manufacture of dyes and methylcellulose, stabilizer

(A) (B) (C) (D) (E)

(A) Occupational Safety and Health Law

MP: Manufacture Prohibition Substances

MA: Manufacture Allowed Substances

- (B) Chemical Substances Examination and Manufacture Regulations
  - Type I Special Chemical Substances
- (C) Special Chemical Substances Regulations
  - N: Upon emissions or discharge of those substances, a disposal system is needed.
- (D) PRTR Law
  - 1: Classification 1-Designated Chemical Substances
  - S1: Special Classification1-Designated Chemical Substances
  - Classification 2-Designated Chemical Substances
- (E) EU Directives
  - O: Relevant to REACH Regulation or RoHS Directives

		(A)	(B)	(C)	(D)	(E)	
			E S C	Special Chemical Substance Regulation	P		
		nd H	nem Jbst Kam	oeci Jbst Jaul	PRTR Law	EU Directives	
		pation lealth	iica ianc ina:	al ( :anc  atic	2	irec	
		ena th L	tion –	Chei Se Sn	₹	tive	
Con	taining Prohibition Substances	ıal Sa Law	La	nic		Ø	
	ntinued)	Occupational Safety and Health Law	>	<u>n</u>			End Use Applications
,,,,						_	··
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine					0	-
	Dinoseb					0	Polymer material
130	4,4'-methylenedi-o-toluidine					0	Curing agent for epoxy resin and urethane resin
131	4,4'-oxydianiline and its salts					0	Polyimide, polyamide imide, polyamide material. Cross-linking agent and polymer stock epoxy, urethane
132	4-Aminoazobenzene; 4-Phenylazoaniline					0	Dye, reagent
133	4-methyl-m-phenylenediamine (2,4-toluene-					0	Polyurethane resin raw materials, dye intermediates
12/	diamine) 6-methoxy-m-toluidine (p-cresidine)					0	Dye intermediate
	Biphenyl-4-ylamine					0	Dyes, pesticide intermediate
	o-aminoazotoluene					ŏ	Dyes, pharmaceutical intermediates
	o-Toluidine; 2-Aminotoluene					0	Reagent, dye intermediate
	N-methylacetamide					0	Solvent, organic synthetic raw material
	1-bromopropane; n-propyl bromide					0	Pharmaceuticals,pesticide intermediates, cleaning solvent
	Cadmium			2	S1	0	Ni-Cd batteries, pigments, plating, stabilizers, alloys
	Cadmium oxide Ammonium pentadecafluorooctanoate (APFO)			2	S1	0	Ni-Cd batteries, plating, alloys
	Dipentyl phthalate(DPP)					0	Reaction aid of fluorine rubber and fluoride resin Plasticizer
143							Plasticizer
	4-Nonylphenol,branched and linear,ethoxylated						
	[substances with a linear and/or branched alkyl						
l	chain with a carbon number of 9 covalently bound					_	5
	in position 4 to phenol,ethoxylated covering UVCB-					0	Paints, Emulsifier
	and well-defined substances, polymers and						
	homologues, which include any of the individual isomers and/or combinations						
	Cadmium sulphide			2	S1	0	Pigments
146	Dihexyl phthalat Disodium 3,3'-[[1,1'-biphenyl]-4,4'-					0	Plasticizer
	diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)						Due for a a totalle and name
147	(C.I. Direct Red 28)					0	Dye for e.g. textile and paper
	, ,						
	Disodium 4-amino-3-[[4'-[(2,4- diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-						D
148	hydroxy-6-(phenylazo)naphthalene-2,7-					0	Dye leather, plastics,vegetable-ivory buttons andwood flour used as a
	riyuroxy-o-(prieriyiazo)riapritrialerie-z,7-						resin filler; produce aqueous inks
	disulphonate (C.I. Direct Black 38)						
1/10	disulphonate (C.I. Direct Black 38)					0	Vulcanisation agent
	Imidazolidine-2-thione; 2-imidazoline-2-thiol				1	0	Vulcanisation agent Paints waterproof material
150	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate)				1	0	Paints, waterproof material
150 151	Imidazolidine-2-thione; 2-imidazoline-2-thiol				1	0	Paints, waterproof material Fire-resistant hydraulic oil material
150	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate				1	0	Paints, waterproof material
150 151 152	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester,			2	1 S1	0 0	Paints, waterproof material Fire-resistant hydraulic oil material
150 151 152 153	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP)			2		0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents
150 151 152 153 154	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate			2		0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules
150 151 152 153 154 155	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt			2		0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products
150 151 152 153 154	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate			2		0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules
150 151 152 153 154 155 156	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol			2		0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products
150 151 152 153 154 155	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)			2		0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers
150 151 152 153 154 155 156	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-			2		0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers Heat stabiliser in the production of rigid and to a minor extent of
150 151 152 153 154 155 156	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)			2	S1	0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC. Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer.
150 151 152 153 154 155 156	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-			2		0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents  Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers  Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC.  Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer.  Cadmium fluoride was used as an active component in fluxes for
150 151 152 153 154 155 156	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)			2	S1	0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC. Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer.
150 151 152 153 154 155 156 157	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  Cadmium fluoride			2	S1	0 0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents  Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers  Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC.  Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer.  Cadmium fluoride was used as an active component in fluxes for
150 151 152 153 154 155 156 157	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)			2	S1	0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents  Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers  Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC.  Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer.  Cadmium fluoride was used as an active component in fluxes for soldering of aluminium and its alloys.
150 151 152 153 154 155 156 157	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Cadmium fluoride			2	S1	0 0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents  Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers  Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC.  Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer.  Cadmium fluoride was used as an active component in fluxes for soldering of aluminium and its alloys.  Intermediate for industrial production of inorganic cadmium
150 151 152 153 154 155 156 157	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  Cadmium fluoride  Cadmium sulphate			2	S1	0 0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents  Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers  Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC.  Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer.  Cadmium fluoride was used as an active component in fluxes for soldering of aluminium and its alloys.  Intermediate for industrial production of inorganic cadmium
150 151 152 153 154 155 156 157	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  Cadmium fluoride  Cadmium sulphate  Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-			2	S1	0 0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC. Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer. Cadmium fluoride was used as an active component in fluxes for soldering of aluminium and its alloys.  Intermediate for industrial production of inorganic cadmium compounds.Metal surface coating.
150 151 152 153 154 155 156 157	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  Cadmium fluoride  Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-			2	S1	0 0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents  Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers  Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC.  Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer.  Cadmium fluoride was used as an active component in fluxes for soldering of aluminium and its alloys.  Intermediate for industrial production of inorganic cadmium
150 151 152 153 154 155 156 157	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  Cadmium fluoride  Cadmium sulphate  Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE			2	S1	0 0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC. Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer. Cadmium fluoride was used as an active component in fluxes for soldering of aluminium and its alloys.  Intermediate for industrial production of inorganic cadmium compounds.Metal surface coating.
150 151 152 153 154 155 156 157 158	Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt Sodium peroxometaborate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  Cadmium fluoride  Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-			2	S1	0 0 0 0 0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules Bleaching agent in laundry detergent and machine dishwashing products  UV-stabilisers Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC. Electric brushes, high-temperature dry-film lubricant, optical applications, and as starting material for crystals for lacer. Cadmium fluoride was used as an active component in fluxes for soldering of aluminium and its alloys.  Intermediate for industrial production of inorganic cadmium compounds.Metal surface coating.

- (A) Occupational Safety and Health Law
  - MP: Manufacture Prohibition Substances
  - MA: Manufacture Allowed Substances
- (B) Chemical Substances Examination and Manufacture Regulations
  - 1: Type I Special Chemical Substances
- (C) Special Chemical Substances Regulations
  - 1: Classification I Substances 2; Classification II Substances 3; Classification III Substances 3
  - N: Upon emissions or discharge of those substances, a disposal system is needed.
- (D) PRTR Law
  - 1: Classification 1-Designated Chemical Substances
  - S1: Special Classification1-Designated Chemical Substances
  - 2: Classification 2-Designated Chemical Substances
- (E) EU Directives
  - O: Relevant to REACH Regulation or RoHS Directives

# **ENVIRONMENTAL CONTROL SYSTEM QUESTIONNAIRE**

Date	of preparation:				
	pany name:				
Nam	e of the place of business:				
Depa	artment:				
Nam	e and title of the person who	completes this format:		(Signa	ature)
Cont	act: Phone:	Fax:			
		Pleas	e check "Yes'	or "No" c	olumn.
Inqu	iries about [Environmenta	Il Control System] If not	applicable, er	nter "N.A."	
No.	Item	Question		Answe	
			Yes	No	Remarks
1	Certification of	Have you obtained certification under ISO-14001 or other			
	environmental ISO	equivalent programs?			
		If Yes, date of certification:			
		If no, check either of the following:	_		
		a. Have a plan to obtain certification by (date)	_		
		b. Have no plan to obtain certification			
		If you answer "Yes", proceed to No. 8.2.			
		If you answer "no", proceed to No. 2.			
2	Environmental policy	Do you have any environmental policy on environmental			
		preservation?			
3	Environmental goal	Do you have goals for environmental preservation?			
	Action plan	Do you have an action plan to achieve the goals?			
	Organization	Do you have a special organization to promote			
	_	environmental control?			
6	Education & training	Do you provide employees with any educational or training			
	_	program?			
7	Internal audit	Do you have a system to carry out an internal			
		environmental audit?			
8.1	Control system	(1) Do you have a system to supervise legislative and			
		voluntary control schemes?			
8.2		(2) Do you comply with all laws relating to environment?			
		(Do you know and follow the applicable laws listed in			
		Annex 1 (page 5)?)			
8.3		(3) Do you have a system to control energy consumption?			
8.4		(4) Do you take actions to reduce wastes?			
8.5		(5) Do you take actions to control and reduce chemical			
		substances?			
8.6		(6) Do you introduce or try a product assessment			
		scheme?			
8.7		(7) Do you have a system to collect and recycle used			
		products and packaging materials?			
9	Information disclosure *1	Do you disclose information about environmental issues?			
		(For example, by Internet, environmental pamphlet, report,			
		etc.)			
10	Biodiversity *2	Are you actively involved in (or support) biodiversity			
	•	conservation movement?			
	-	ormation disclosure column, and have an Internet home page, sh environmental literature, please attach to this sheet.	, please enter	your URI	_ in
				,	
*2.		he subject for a survey of anvironmental management s			

\*2: "10. Biodiversity" is not the subject for a survey of environmental management system, but we ask you how your organization is working on this issue.

### PRODUCTION GOODS PROCUREMENT QUESTIONNAIRE

Date of preparation:			
Company name:			
Name of the place of	of business:		
Department:			
Name and title of the	e person who comp	(Signature)	
Contact: F	Phone:	Fax:	
Item name:		Model, Item No:	Weight (g):

Inquiries about [Goods being or to be procured for production] (Products, Parts, Packaging)]

Please check "Yes" or "No" column. If not applicable, enter "N.A."

		, Packaging)]	Question If not applicable, enter "N.A."  Answer		r	
No.		Item	Question	Yes	No	Remarks
1	Packaging	Containing of heavy	Does the packaging contain heavy metals, such as cadmium,			
	materials	metals	sexiavalent chrome, mercury and lead?			
			If Yes, list them in Form 4 (page 27).			
2	1	Use of polyvinyl	Do you use polyvinyl chloride in your exterior packaging			
		chloride	and buffer materials (e.g., bags)?			
3	1	Resources saving	Do you take or consider measures to reduce excessive			
		(packaging material)	packaging or packaging volume?			
		,	(Reduced packaging compared with similar products and			
			parts)			
4	Ť	Indication of materials	Do you indicate materials used for plastic packaging			
		(packaging material)	materials?			
5	Ť	Reduction of foams	Do you minimize the use of styrene foam or replace foam			
			with other materials?			
6.1	Products,	Use prohibition	Do you use prohibition substances in the manufacturing			
	parts,	substances	process of products and parts? (See Annex 2,page 5.)			
	packaging	*1	If Yes, list the substances in Form 3, page 26.			
6.2	1	Use avoidance	Do you use avoidance substances in the manufacturing	· <b>†</b> ·····		
		substances	process of products or parts? (See Annex 3,page 5.)			
		*1	If Yes, list the substances in Form 3, page 26.			
7.1	1	Containing prohibition	Do you use containing prohibition substances in products or			
		substances	parts? (See Annex 4, page 6)			
		*2	If Yes, list the substances in Form 4, page 27.			
7.2	1	Containing avoidance	Do you use containing avoidance substances in products or	· <b>T</b>		
		substances	parts? (See Annex 6,page 8 to 11.)			
		*2	If Yes, list the substances in Form 4, page 27.			
7.3	1	Conditional containing	Do you use conditional containing prohibition substances in	1		
		prohibition substances	products or parts? (See Annex 5, page 7).			
		*3	If Yes, list the substances in Form 4, page 27.			
			Note: Please check "Yes" even if exclusion clauses are included.			
8	Ĭ	Indication of materials	Do you indicate materials used for plastic products or parts?			
		(products, parts)	(Preferably, molded items weighing 25 grams or over.)			
9	Products	Compliance with laws	Does the product comply with applicable laws, including the			
			Recycling Law and Energy Saving Law?			
10	Ĭ	Resources saving	Do you use recycled resources or parts, or do you			
			miniaturize the product? (As compared with similar products)			
	1		Do you intend to take the above-mentioned measures?			
11	1	Energy saving	Do you take measures to reduce power consumption in both			
			operation and standby modes? (As compared with similar			
	1		products). Do you intend to take the above-mentioned			
	1		measures?			
12	Ī	Disposition	Do you take into account the separability and degradability to			
		1	ensure proper disposition of the product?		ĺ	

Note: If any of the above has changed, immediately contact the SII operating division that requested the survey. (Please note that changes of use prohibition substances, containing prohibition substances, and conditional containing prohibition substances are especially important.)

If "No" is checked in questions 1 and 6.1-7.3, it is not necessary to submit Forms 3 and 4.

- \*1: "Use" means "to use" for manufacturing, i.e. washing, products and parts that do not contain chemical substances.
- \*2: "Containing" means "to contain" chemical substances that have been intentionally added to products and parts to meet their functionality and performance. Reaction-type residue like non-reaction monomer and impurities are excluded.

  If an impurity in a chemical substance for which a threshold level is specified exceeds an acceptable value, the chemical substance is judged to contain a prohibited substance.
- \*3: "Conditional Containing Prohibition Substances" are chemical materials that is basically prohibited to contain and include some exceptions according to applications.

Even if exceptions are included, please check "Yes" in 7.3 and write the name of chemical compounds present in Form 4.

# RESULTS OF RESEARCH ON CHEMICAL SUBSTANCES BEING USED IN THE MANUFACTURING PROCESS

Date	of preparation:							
Com	pany name:					_		
Nam	e of the place of busine	ess:				-		
Depa	artment:					-		
Nam	e and title of the persor	n who completes	this format:			(Sig	ınature)	
Cont	act: Phone:				Fax:			
				-				
No.	Name of product or	Model or type	Chemi	cal substance	es being used	Abolition plan	Abolition	Purpose of use
	part		Prohibition/ Avoidance *1	CAS No.	Name of chemical substance	Yes/No	schedule (M/Y)	
Ex.	Metal sheet	123-456	Avoidance	79-01-6	Trichloroethylene	Yes	Dec. 2016	Degreasing washing

all the title on / A control and a				

-26-

Please specify Use Prohibition (UP) or Use Avoidance (UA) referring to page 5.

<sup>\*1:</sup>Prohibition/ Avoidance

# RESULTS OF RESEARCH ON CHEMICAL SUBSTANCES CONTAINED IN GOODS

Date	of preparation:									
Comp	pany name:							='		
Name	e of the place of busin	ess:						-		
Depa	rtment:							-		
Name	e and title of the perso	n who con	npletes this	s format:				(8	Signature)	
Conta	act:	Phone:				Fax:				•
No.	Name of product, part or		Weight (g)		Chemical substar	Intentional		Form and		
	packaging materia	or type		Prohibition/ Conditional/	CAS No.	Name of chemical substances	(ppm)	addition/ Impurities/	Exceptions No.*4	purpose of containing
Ex.	IC	123-456	0.1	Avoidance *1 CCP	7439-92-1	Lead	40,000	Exceptions *3 Intentional	_	Lead wire
LX.		125-450	0.1	001	7405-52-1	Lead	40,000	memoria		soldered
Ex	Ceramic capacitor	ABC-123	0.7	ССР	1317-36-8	Lead (II) oxide	3,400	Exception	7c-III	plating
	Octamio dapaonor	7120 120	0.7		1017 00 0	Lead (II) Oxide	0,400	Exocption	70 111	
							+			
							1			

Please specify Containing Prohibition (CP), Conditional Containing Prohibition (CCP), or Containing Avoidance (CAV), referring to pages 6 to 11.

Enter the concentration of the target chemical substance by using the weight based on the threshold level column or remarks column as the denominator.

Enter as follows according to the reason.

- ·Intentional addition: [Intentional]
- $\cdot \text{Impurities or reaction-type residue: [Impurities]}$
- ·When exception of conditional containing prohibition applies: [Exception]

Note: If any of the above has changed, immediately contact the SII operating division that requested the survey.

<sup>\*1:</sup> Prohibition/Conditional/Avoidance:

<sup>\*2:</sup> Content :

<sup>\*3:</sup>Intentional addition/ Impurities/ Exceptions

<sup>\*4:</sup> Enter the number of exceptions.