# SII GREEN PROCUREMENT STANDARDS

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Seiko Instruments Inc.

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### **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.
- Not only observe all laws, rules, regulations, agreements and other duties, 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.
- Be aware of our impact on biodiversity and all the benefits we receive from it, and make efforts toward biodiversity conservation.
- 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 30) Environmental Control System Questionnaire\*1
  - (2) Form 2 (See page 31) Production Goods Procurement Questionnaire\*2
  - (3) Form 3 (See page 32) Results of Research on Chemicals Substances Being Used in the Manufacturing Process\*3
  - (4) Form 4 (See page 33) 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 (such as lists of components in in procured products, analysis data, or SDSs) other than survey sheets, or to submit them in chemSHERPA AI\*1 format if SII's customer requests. Please cooperate with the business units on the submission in response to their request.
  - \*1 chemSHERPA AI:

Information Communication Sheet for disclosure and communication on information of chemical substances in articles, of which Ministry of Economy, Trade and Industry is promoting the development and dissemination.

- 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.

#### Not-containing:

This means that the parts and materials making up a product do not contain chemical substances, whether intentionally or otherwise.

#### 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 page33, 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.

#### Article:

An object of which specific form, appearance or design given in production significantly determines the functions of final use, rather than the functions performed by the chemical composition.

Example) Substrates, capacitors, electric motors, gears and plastic cases are articles.

### CAS No.:

Unique Nos. of chemical substances designated by the Chemical Abstract Service, a division of the American Chemistry Society.

#### IEC62474:

The international standard concerning disclosure procedure of contained chemical substances provided by IEC (International Electrotechnical Commission).

## Candidate List:

The list of SVHCs (Substances of Very High Concern) which are candidate substances for authorization under REACH Regulation.

## [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.	Ο	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.	Items	Criteria	Goods covered by this standard		
INO.	items		Packaging	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	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 12) 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**

More specifically, substances whose use should be prohibited in the

		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	
	6	Tetrachloroethylene	127-18-4	
Prohibition	7	Benzene * 1	71-43-2	When contained, see Table N on page 17.
е Р	8	Pentachloroethane	76-01-7	
Use	9	1,1,1,2-tetrachloroethane	630-20-6	
	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). CAS No. Remark When contained, 107-06-2 1,2-dichloroethane see Annex 6 on page 9. 1,2-dichloroethylene 540-59-0 1,3-dichloropropene 542-75-6 HCFC group 5 HFC group 6 PFC group 7 Dichloromethane 75-09-2 Cis-1,2-dichloroethylene 156-59-2 8 When contained, Trichloroethylene 79-01-6 see Annex 6 on page 8. Nitrous oxide 10024-97-2 Sulfur hexafluoride 2551-62-4 67-66-3 12 Chloroform

## 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	Not-containing	
	3	Asbestos	Page 13 Table A	Intentional addition	
	4	Aldrin	309-00-2	Not-containing	
	5	Endrin	72-20-8	Not-containing	
	6	Chlordane	57-74-9	Not-containing	
	7	Dieldrin	60-57-1	Not-containing	
	8	Bis(chloromethyl) ether	542-88-1	Intentional addition	
	9	Tributyl tin oxide (TBTO)	56-35-9	Not-containing	
		Tri-substituted organostannic compounds (including Tributyl		_	
	10	tin and Triphenyl tin)	Page 13 Table B	Intentional addition	
ng	11	Hexachloro benzene (HCB)	118-74-1	Not-containing	
:⊑	12	Polychlorinated naphthalene (1 or more chlorine)	Page 13 Table C	Not-containing	
ota	13	Polychlorobiphenyls (PCB)	1336-36-3	Not-containing	
ΙŌ	14	Polychlorinated terphenyls (PCT)	61788-33-8	Intentional addition	
е (	45	Dalla a sirata I fish a shift a sa (DDDE)	D 45 T.II. D		Contents
무	15	Polybrominated diphenylethers (PBDE)	Page 15 Table D	1000 ppm	concentration in
ng	4.0	B + 1	D 45 F 11 F	4000	homogenous
Containing Prohibition (CP) Banning the Containing	16	Polybrominated biphenyls (PBB)	Page 15 Table E	1000 ppm	material
Ва	17	Azo compounds	Page 15 Table F	Intentional addition	*1
٠	18	2,4,6-Tri-tert-butylphenol	732-26-3	Not-containing	
<u> </u>		N,N'-ditolyl-p-phenylenediamine	27417-40-9	Not-containing	
ءِ	19	N-tolyl-N'-xylyl-p-phenylenediamine	70290-05-0		
ţ		N,N'-dixylyl-p-phenylenediamine	28726-30-9		
ig	20	Chlorinated paraffins (C10-13)	Page 15 Table G	Not-containing	
ا م	21	Mirex	2385-85-5	Not-containing	
Ρ.	22	Yellow phosphor	12185-10-3	Intentional addition	
βc	23	Toxaphene	8001-35-2	Not-containing	
Ξ	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	
o	26	Monomethyl-tetrahclorodiphenyl-methane	76253-60-6	Intentional addition	
O	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	Not-containing	
	29	Perfluorooctane sulfonates (PFOS)	Page 16 Table H	Not-containing	*3
	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 16 Table I	1000ppm *6	Contents concentration in the
	34	Dioctyltin (DOT) compounds	Page 16 Table J	1000ppm *7	weight of the delivered product
I	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 16 Table K	Not-containing	
	38	Polycyclic aromatic hydrocarbons(PAH)	Page 16 Table L	1ppm *8	*1,*10
	39		-		Contents
I		Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	1000ppm	concentration in the
	40	Tris(1-chloro-2-propyl)phosphate (TCPP)	13674-84-5	1000ppm	weight of the
	41	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	1000ppm	delivered product
I	42	PFOA、PFOA-salts、PFOA-esters	Page 16 Table M	Not-containing	
I	43	4,4'-isopropylidenediphenol (bisphenol A:BPA)	80-05-7	*9	
I	44	Pentachlorophenol and its salts and esters	87-86-5	Not-containing	
	45	CMR substances in textile products	Page 17 Table N	*10	
*1	Substans	ces that may enter the mouth or directly contact human skin for	a long time or short	torm ropotitivo conto	

<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 33.

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 The upper limit of inclusion shall be 0.5 ppm for parts used in toys/nursery items.
- \*9 Content is prohibited if the concentration of thermal paper is 200 ppm or more.
- \*10 Starting on June 1, 2020, textile products will be subject when they contain CMR substances (carcinogenic, mutagenic, toxic for reproduction) above the threshold.

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

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

(substances prohibited from being

	contained, with some exemptions)	CAS No.	Threshold Level	Remark
1	Cadmium / cadmium compounds*1,*4	Refer to Table O on	100 ppm	Contents concentration
		page 18.		in homogenous material
2	Hexavalent chromium compounds*1,*2,*4	Refer to Table P on	1000 ppm	Contents concentration
	nexavalent chromium compounds	page 18.	тооо ррпп	in homogenous material
3	Lead / lead compounds *1, *3, *4	Refer to Table Q on	1000 ppm	Contents concentration
3	Lead / lead compounds	page 18.	тооо ррпп	in homogenous material
4	Mercury / mercury compounds*1	Refer to Table R on	1000 ppm	Contents concentration
4	Mercury / mercury compounds	page 19.	тооо ррпп	in homogenous material
5	Bis (2-ethylhexyl)phthalate (DEHP) *5	117-81-7	1000 ppm	Contents concentration
J	bis (2-ethylnexyr)phthalate (DEnP)		тооо ррпп	in homogenous material
6	Benzyl butyl phthalate (BBP)*5	85-68-7	1000 ppm	Contents concentration
U	Berizyi butyi pritrialate (BBF)		тооо ррпп	in homogenous material
7	Dibutyl phthalate (DBP)*5	84-74-2	1000 ppm	Contents concentration
	Dibutyi pritrialate (DBF)	04-74-2	тооо ррпп	in homogenous material
8	Diisobutyl phthalate (DIBP)*5	84-69-5	1000 ppm	Contents concentration
	Disobutyi pritrialate (DIBF)	04-09-0	тооо ррпп	in homogenous material
9	Polyvinyl chloride (PVC) *6	9002-86-2	1000 ppm	Contents concentration
9	Polyvinyi chionae (PVC)	9002-00-2	тооо ррпп	in homogenous material

- \*1: The total amount of lead, cadmium, hexavalent chromium and mercury contained in packaging materials shall be less than 100 ppm at weight ratio.
- \*2: The amount of hexavalent chromium compounds contained in leather parts in contact with the skin shall be less than 3ppm at weight ratio.
- \*3: The amount of lead contained in PVC cable shall be less than 100 ppm at weight ratio.
- \*4: If it is contained in textile products (including textile parts), refer to the Table N on page 17.
- \*5: We request that management be performed so as to ensure non-containment for auxiliary materials (rubber for binding cables, strings for plastic materials, etc.) used in goods (products, parts, packaging materials, etc.) purchased for production by our company, while also ensuring that phthalic acid esters do not transition due to coming into contact with the soft resins or rubber materials (conductive mats, tape, string, film, belt conveyor mats, etc.) used in the manufacturing processes of suppliers.
- \*6: "Polyvinyl chloride(PVC)" includes its homopolymer and copolymer.

Cadmium / Cadmium Compounds

	No.	Use of Applications		
Exemptions *7	8(b)	Cadmium and its compounds in electrical contacts.		
(may be contained)	13(b)	Cadmium in filter glasses and glasses used for reflectance standards.		

## **Hexavalent Chromium Compounds**

	No.	Use of Applications
Exemptions *7	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
Exemptions *7	5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight
(may be	6(a)-l	Lead as an alloying element in steel for machining purposes containing up to 0,35% lead by weight
contained)		and in batch hot dip galvanised steel components containing up to 0,2% lead by weight.
	6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % 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)-IV	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or
		discrete semiconductors(*8).
	13(a)	Lead in white glasses used for optical applications.

Mercury / Mercury Compounds

	No.	Use of Applications			
Exemptions *7	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)	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)

. 0.,, . 00			
	No.	Use of Applications	
Exemptions	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.	

- \*7: Exemptions (cadmium, hexavalent chromium, mercury, lead) shall comply with the Exemptions 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. Exemptions relating to batteries shall conform to the EU batteries directive(2006/66/EC(2013/56/EU)).
- \*8: 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
			Refer to Table S	1000 ppm or	Contents concentration in
	1	Arsenic / arsenic compounds *4	on page 19.	intentional addition	homogenous material
	2	Beryllium / beryllium compounds*1	Refer to Table T	1000 ppm or	Contents concentration in
	2	Beryllium / beryllium compounds 1	on page 19.	intentional addition	homogenous material
	2	Nickel / Nickel compounds *2	Refer to Table U	1000 ppm or	Contents concentration in
	3	Nickei / Nickei compounds 12	on page 19.	intentional addition	homogenous material
	4	Dhthalatas/ayaant DEUD BBD DBD DBD\*1	Refer to Table V	1000 ppm or	Contents concentration in
	4	Phthalates(except DEHP,BBP,DBP,DIBP)*1	on page 19.	intentional addition	homogenous material
	5	Radioactive substances	Refer to Table W	intentional addition	Contents concentration in
	5	Radioactive substances	on page 19.	intentional addition	plasticized material
	6	Brominated flame retardants	Refer to Table X	1000 ppm or	Contents concentration in
	О	(except PBB,PBDE and HBCDD)	on page 20.	intentional addition	homogenous material
	7	Chlorinated flame retardants	Refer to Table Y on page 20.	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
	8	Red phosphorus *1	7723-14-0	Intentional addition	Except for red phosphorus in the metal
	9	Perchlorate	Refer to Table Z	Intentional addition	
	Э	Perchlorate	on page 21.	Intentional addition	
	10	Anthracene	120-12-7		
Φ	11	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		Cobalt dichloride	7646-79-9		This is prohibited from being contained in drying agents (such as silica gel).
Α		Diarsenic pentaoxide*1	1303-28-2		*4
ing	14	Diarsenic trioxide*1	1327-53-3		*4
ntair	15	Sodium dichromate	7789-12-0 10588-01-9		*3 , *4
ပိ	16	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	1	
			7784-40-9	1	*3 , *4
	18	Triethyl arsenate	15606-95-8	1	
	19	Anthracene oil	90640-80-5	1	
	20	Anthracene oil, anthracene paste, distn. lights	91995-17-4	In the cases where	
	21	Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	concentration of contained	
	22	Anthracene oil,anthracene-low	90640-82-7	substance exceeds 1000 ppm,	
		Anthracene oil, anthracenepaste	90640-81-6	using weight of each article	
		Coal tar pitch, high temperature	65996-93-2	composing supplies as	
		Aluminosilicate, Refractory Ceramic Fibres	-	denominator	
		Zirconia Aluminosilicate,		1	
	26	Refractory Ceramic Fibres	-		
	27	2,4-Dinitrotoluene	121-14-2	1	
	_	Lead chromate	7758-97-6	1	*3 , *4
	29	Lead chromate molybdate sulfate red	12656-85-8	1	*3 , *4
	30	(C.I. Pigment Red 104) C.I. Pigment Yellow 34	1344-37-2	1	*3 , *4
		Acrylamide	79-06-1	1	,
		Trichloroethylene	79-00-1	1	
		Boric acid	10043-35-3 11113-50-1		
	34	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4		
	35	Tetraboron disodium heptaoxide, hydrate	12267-73-1		

<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) .However, make sure that parts and materials (including alloys) that can potentially be in contact with skin for long periods of time have properties of 0.5 μg/cm2/week or less (elution amount).

<sup>\*3.</sup> This only applies to the exemptions 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> If it is contained in textile products (including textile parts), refer to the Table N on page 17.

# 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
	36	Sodium chromate	7775-11-3		*3 , *4
	37	Potassium chromate	7789-00-6		*3 , *4
	38	Ammonium dichromate	7789-09-5		*3 , *4
		Potassium dichromate	7778-50-9		*3 , *4
		Cobalt(II) sulphate	10124-43-3		, .
		Cobalt(II) dinitrate	10141-05-6		
, F			513-79-1	1	
		Cobalt(II) diacetate	71-48-7	1 l	
			109-86-4	1	
		2-Methoxyethanol			
ŀ		2-Ethoxyethanol	110-80-5		
ı l	46	Chromium trioxide	1333-82-0		*3 , *4
		Acids generated fromchromium trioxide andtheir			
		oligomers:			
	47		7738-94-5		*3 , *4
	.,	Dichromic acid	13530-68-2		0, 1
		Oligomers of chromic acid and dichromic acid	111 15 0		
ı L		2-ethoxyethyl acetate	111-15-9	]	
L	49	strontium chromate	7789-06-2		*3 , *4
	,	1,2-Benzenedicarboxylic acid, di-C7-11-branched and	00545 40 4		
	50	linear alkyl esters (DHNUP)*1	68515-42-4		
			7803-57-8	1	
	51	Hydrazine			
ļ		14 4 10 51	302-01-2	l	
Į.		1-methyl-2-pyrrolidone	872-50-4	l	*4
L	53	1,2,3-trichloropropane	96-18-4	l	
ſ	E 4	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl	71000 00 0		*4
	54	esters, C7-rich(DIHP)*1	71888-89-6		*4
ŀ	5.F	Dichromium tris(chromate)	24613-89-6	1	*3 , *4
-				1	
		Potassium hydroxy-octaoxodizincatedichromate	11103-86-9		*3,*4
ŀ	57	Pentazinc chromate octahydroxide	49663-84-5		*3 , *4
	58	Formaldehyde, oligomeric reaction products with	25214-70-4		
L		aniline (technical MDA)	20214 70 4		
	59	Bis(2-methoxyethyl) phthalate(DMEP)*1	117-82-8		*4
				1	This is prohibited from being
					contained in items that might be in
99	00	2 Mathay vanilinasa Aniaidina	00.04.0		· ·
ä	60	2-Methoxyaniline;o-Anisidine	90-04-0	In the cases where	direct contact with human skin or
ğ				concentration of contained	the mouth for a long period of time
>				substance exceeds 1000	or short-term repetitive contact.
g A	61	4-(1,1,3,3-tetramethylbutyl)phenol,	140-66-9		
Ξ̈́		1,2-Dichloroethane	107-06-2	ppm, using weight of each	
jĘ		Bis(2-methoxyethyl) ether	111-96-6	article composing supplies	
⊭	00			as denominator	
` ⊨	64	Arsenic acid	7778-30-4		
Containing Avoidance		Arsenic acid	7778-39-4		
Co	65	Calcium arsenate	7778-44-1		
Cor	65 66	Calcium arsenate Trilead diarsenate	7778-44-1 3687-31-8		*3,*4
Co	65 66	Calcium arsenate	7778-44-1		*3 , *4 *4
Co	65 66	Calcium arsenate Trilead diarsenate	7778-44-1 3687-31-8		
Cor	65 66	Calcium arsenate Trilead diarsenate	7778-44-1 3687-31-8		*4 This is prohibited from being
Cor	65 66 67	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)	7778-44-1 3687-31-8 127-19-5		*4 This is prohibited from being contained in items that might be in
Cor	65 66 67	Calcium arsenate Trilead diarsenate	7778-44-1 3687-31-8		*4 This is prohibited from being contained in items that might be in direct contact with human skin or
Cor	65 66 67	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)	7778-44-1 3687-31-8 127-19-5		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
Cor	65 66 67 68	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)	7778-44-1 3687-31-8 127-19-5 101-14-4		*4 This is prohibited from being contained in items that might be in direct contact with human skin or
Co	65 66 67 68	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein	7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8		*4 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.
Co	65 66 67 68 69 70	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide	7778-44-1 3687-31-8 127-19-5 101-14-4		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
Co	65 66 67 68 69 70	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein	7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8		*4 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.
Col	65 66 67 68 69 70 71 72	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate	7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9		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.
Cor	65 66 67 68 69 70 71 72	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide Lead styphnate Lead dipicrate	7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1		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.  *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72	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)	7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0		*4 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.  *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72	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	7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-8 13424-46-9 15245-44-0 6477-64-1		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.  *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72 73	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)	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		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.  *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72 73 74	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	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		*4 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.  *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72 73 74	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)	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		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.  *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72 73 74 75 76	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	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
Cor	68 69 70 71 72 73 74 75 76 77	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)	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		*4 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.  *3,*4 *3,*4
Cor	68 68 69 70 71 72 73 74 75 76 77	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-	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
ōO	68 68 69 70 71 72 73 74 75 76 77	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)	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
ōO	65 66 67 68 69 70 71 72 73 74 75 76 77	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]-	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
ōO	68 68 69 70 71 72 73 74 75 76 77	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) B-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	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) B-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72 73 74 75 76 77	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	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
Col	65 66 67 68 69 70 71 72 73 74 75 76 77 78	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) B-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)	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
Cor	65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	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(III) 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'	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
ōO	65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	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(III) 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)	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
ōO	65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	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(III) 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'	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4
ōO	65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81	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(Hexamethylpararosaniline chloride)	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4
OO	68 68 69 70 71 72 73 74 75 76 77 78 80 81	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(Hexamethylpararosaniline chloride) [4-[[4-anilino-1-naphth]][4-(dimethylamino) phenyl]	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4
OO	68 68 69 70 71 72 73 74 75 76 77 78 80 81 82	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(Hexamethylpararosaniline chloride) [4-[[4-anilino-1-naphth]][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene]	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4
Col	68 68 69 70 71 72 73 74 75 76 77 78 80 81 82	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) B-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(Hexamethylpararosaniline chloride) [4-[[4-anilino-1-naphth]][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene] dimethylammonium chloride (C.I.Basic Blue 26)	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4
Col	68 68 69 70 71 72 73 74 75 76 77 78 80 81 82	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(Hexamethylpararosaniline chloride) [4-[[4-anilino-1-naphth]][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene]	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 2580-56-5		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4
OO	68 68 69 70 71 72 73 74 75 76 77 78 80 81 82	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(Hexamethylpararosaniline chloride) [4-[[4-anilino-1-naphth]][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene] dimethylammonium chloride (C.I.Basic Blue 26) α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino)	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		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4
Cor	68 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83	Calcium arsenate Trilead diarsenate N,N-dimethylacetamide (DMAC)  4,4'-methylene-bis-(2-chloroaniline)  Phenolphthalein Lead azide Lead diazide 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)  β-TGIC (1.3.5-tris (dimethylamino) benzophenone (Michler's ketone) N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base) C.I, Basic Violet 3(Hexamethylpararosaniline chloride) [4-[[4-anilino-1-naphth]][4-(dimethylamino) phenyl] methylene]cyclohexa-2,5-dien-1- ylidene] dimethylammonium chloride (C.I.Basic Blue 26) α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1- methanol (C.I.Solvent Blue 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 2580-56-5		*4 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.  *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4 *3,*4

<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 exemptions 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.

<sup>\*4.</sup> If it is contained in textile products (including textile parts), refer to the Table N on page 17.

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

(Substances for which containing in

	goods is to be avoided)	CVCVI	Throphold Lavel	Domorto
86	<u> </u>	CAS No. 72629-94-8	Threshold Level	Remark
87	Tricosafluorododecanoic acid	307-55-1	-	
	Henicosafluoroundecanoic acid	2058-94-8	1	
	Heptacosafluorotetradecanoic acid	376-06-7		
	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -	0.000.	1	
	covering well-defined substances and UVCB	_		
50	substances, polymers and homologues			
	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,	Refer to Table		CAS No. is not stated in the
91		AA on page		Candidate List, but stated in
	covering also UVCB- and well-defined substances	21.		IEC62474.
	which include any of the individual isomers or a			
	combination thereof	400 77 0		
92		123-77-3		
93	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7		
	(Hexahydrophthalic anhydride - HHPA)			
	Hexahydromethylphathalic anhydride,	25550-51-0		
94	Hexahydro-4-methylphathalic anhydride,	19438-60-9		
94	Hexahydro-1-methylphathalic anhydride,	48122-14-1		
	Hexahydro-3-methylphathalic anhydride	57110-29-9		
95	Methoxy acetic acid	625-45-6	1	
	1,2-Benzenedicarboxylic acid, dipentylester, branched		1	
96	and linear *1	84777-06-0		
97		605-50 F	1	*4
		605-50-5	1	4
	N-pentyl-isopentylphtalate *1	776297-69-9	1	
	1,2-Diethoxyethane	629-14-1	4	*4
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	4	*4 For the fabric and leather
101	Dibutyltin dichloride (DBT)	683-18-1		product that might have con with human skin, the conten concentration exceeding 100
100	Access to the death to the	54404.00.4		ppm in tin component is prohibited.
_	Acetic acid, lead salt, basic	51404-69-4		
	Lead (II) carbonate basic	1319-46-6	If the contents concentration	
		12036-76-9	exceeds 1,000 ppm when	
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	the weight of the delivered	
106	Dioxobis(stearato)trilead	12578-12-0	product is used as the	
107	Fatty acids, C16-18, lead salts	91031-62-8	denominator	
108	Lead bis(tetrafluoroborate)	13814-96-5		
109	Lead cynamidate	20837-86-9		*3, *4
110	Lead dinitrate	10099-74-8	1	
	Lead oxide (lead monoxide)	1317-36-8	1	
		1314-41-6	1	
	Lead titanium trioxide	12060-00-3	1	
			1	ĺ
114	Lead Titanium Zirconium Oxide	12626-81-2		
	Lead Titanium Zirconium Oxide Pentalead tetraoxide sulphate	12626-81-2 12065-90-6	1	
115	Pentalead tetraoxide sulphate	12065-90-6		
115 116	Pentalead tetraoxide sulphate C.I. Pigment Yellow 41	12065-90-6 8012-00-8		
115 116 117	Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped	12065-90-6 8012-00-8 68784-75-8		
115 116 117 118	Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt	12065-90-6 8012-00-8 68784-75-8 11120-22-2		
115 116 117 118 119	Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt, dibasic	12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7		*2 *4
115 116 117 118 119 120	Pentalead tetraoxide sulphate C.I. Pigment Yellow 41 Silicic acid, barium salt, lead-doped Silicic acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead	12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2		*3, *4
115 116 117 118 119 120 121	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	12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4		*3, *4
115 116 117 118 119 120 121 122	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	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, *4
115 116 117 118 119 120 121 122 123	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	12065-90-6 8012-00-8 68784-75-8 11120-22-2 6229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9		*3, *4
115 116 117 118 119 120 121 122 123 124	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	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, *4
115 116 117 118 119 120 121 122 123 124 125	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	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, *4
115 116 117 118 119 120 121 122 123 124 125 126	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 Dimethyl sulphate	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, *4
115 116 117 118 119 120 121 122 123 124 125 126 127	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 Dimethyl sulphate 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	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, *4
115 116 117 118 119 120 121 122 123 124 125 126 127	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 Dimethyl sulphate	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, *4
115 116 117 118 119 120 121 122 123 124 125 126 127 128	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 Dimethyl sulphate 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-methylenedi-o-toluidine	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, *4
115 116 117 118 119 120 121 122 123 124 125 126 127 128 129	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 Dimethyl sulphate Dimethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-methylenedi-o-toluidine 4,4'-oxydianiline and its salts	12065-90-6 8012-00-8 68784-75-8 11120-22-2 6229-08-7 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		
115 116 117 118 119 120 121 122 123 124 125 126 127 128 129	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 Dimethyl sulphate 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-methylenedi-o-toluidine	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		This is prohibited from being
115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130	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 Dimethyl sulphate Dimethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-methylenedi-o-toluidine 4,4'-oxydianiline and its salts	12065-90-6 8012-00-8 68784-75-8 11120-22-2 6229-08-7 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		This is prohibited from being contained in items that migh
115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131	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 Dimethyl sulphate 3-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 4-methyl-m-phenylenediamine (2,4-toluene-diamine)	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 60-09-3 95-80-7		This is prohibited from being contained in items that migh in direct contact with human
115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132	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 Dimethyl sulphate Dimethyl sulphate Dimethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Dinoseb 4,4'-methylenedi-o-toluidine 4,4'-oxydianiline and its salts 4-Aminoazobenzene; 4-Phenylazoaniline	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 60-09-3		This is prohibited from being contained in items that migh in direct contact with human skin or the mouth for a long period of time or short-term
115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133	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 Dimethyl sulphate 3-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 4-methyl-m-phenylenediamine (2,4-toluene-diamine) 6-methoxy-m-toluidine (p-cresidine)	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 60-09-3 95-80-7 120-71-8		This is prohibited from being contained in items that migh in direct contact with human skin or the mouth for a long
115 116 117 118 119 120 121 122 123 124 125 126 127 128 130 131 132 133 134 134	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 Dimethyl sulphate Dimethyl sulphate Dinoseb 4,4'-methylenedi-o-toluidine 4,4'-oxydianiline and its salts 4-Aminoazobenzene; 4-Phenylazoaniline 4-methyl-m-phenylenediamine (2,4-toluene-diamine) 6-methoxy-m-toluidine (p-cresidine) Biphenyl-4-ylamine	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 60-09-3 95-80-7 120-71-8		This is prohibited from being contained in items that migh in direct contact with human skin or the mouth for a long period of time or short-term
115 116 117 118 119 120 121 122 123 124 125 126 127 130 131 132 133 134 135 136	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 Dimethyl sulphate Dimethyl sulphate 3-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 4-methyl-m-phenylenediamine (2,4-toluene-diamine) 6-methoxy-m-toluidine (p-cresidine) Biphenyl-4-ylamine o-aminoazotoluene	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 60-09-3 95-80-7 120-71-8 92-67-1		This is prohibited from being contained in items that migh in direct contact with human skin or the mouth for a long period of time or short-term

<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 exemptions 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.

<sup>\*4.</sup> If it is contained in textile products (including textile parts), refer to the Table N on page 17.

## **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
139	Cadmium	7440-43-9		*3 , *4
	Cadmium oxide	1306-19-0	]	*3 , *4
141	Dipentyl phthalate(DPP)	131-18-0		*1 , *4
142	4-Nonylphenol,branched and linear,ethoxylated [substances with a linear and/or branched alkyl chain 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	-		Placing in market of textile products or components made of textile which contain the substance at the concentration of 100 ppm or higher and are assumed to be water-washed i ordinary conditions of use will be a substantial to the containing the
L				prohibited from February 3,
	Cadmium sulphide	1306-23-6		*3 , *4 *1 , *4
145	aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	84-75-3 573-58-0		1, 4
146	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		
147	Black 38) / Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	1	
	Lead di(acetate)	301-04-2	1	*3 , *4
	Trixylyl phosphate	25155-23-1	1	,
150	1 2-Benzenedicarboxylic acid_dihexyl ester_branched	68515-50-4		
151	Cadmium chloride	10108-64-2	1	*3 , *4
	Sodium perborate; perboric acid, sodium salt	(15120-21-5)		,
152	Sodium perborate, perbond adia, sodium sait	(11138-47-9)		
153	Sodium peroxometaborate	7632-04-4		
154	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1		
155	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia- 4-stannatetradecanoate (DOTE)	15571-58-1		*5
156	Cadmium fluoride	7790-79-6	1	*3 , *4
		10124-36-4	1	·
157	Cadmium sulphate	31119-53-6	In the cases where	*3 , *4
158	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)	-	concentration of contained substance exceeds 1000 ppm, using weight of each article composing supplies as denominator	*5
159	and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5,CAS No.84-75-3)	68515-51-5 68648-93-1		
	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-		
161	1,3-propanesultone	1120-71-4		
162	(UV-327)	3864-99-1		
163	butyl)phenol (UV-350)	36437-37-3		
164	Nitrobenzene	98-95-3		
165	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4		
166	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8		Use is prohibited in the cases where it falls under the scope application of polycyclic aroma hydrocarbon (PAH).
167	4,4'-isopropylidenediphenol (bisphenol A:BPA)	80-05-7		Inclusion of 200 ppm or higher concentration in thermal paper will be prohibited.
168	4-heptylphenol, branched and linear	-	1	
169	Nonadecafluorodecanoic acid (PFDA) and its sodium	335-76-2 3108-42-7		
L.		3830-45-3		
	p-(1,1-dimethylpropyl)phenol	80-46-6 Refer to Table AB		CAS No. is not stated in the
171	Perfluorohexane-1-sulphonic acid and its salts	on page 21.		Candidate List, but stated in IEC62474.

<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 exemptions 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> If it is contained in textile products (including textile parts), refer to the Table N on page 17.

<sup>\*5.</sup> This is prohibited from being contained in fabric and leather products that might touch human skin .

## **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
	172	chrysene	218-01-9		*4 , *6
		benz[a]anthracene	56-55-3		*4 . *6
		cadmium nitrate	10325-94-7		*3 . *4
		cadmium hydroxide	21041-95-2		*3,*4
		cadmium carbonate	513-78-0		*3 . *4
	177	1,6,7,8,9,14,15,16,17,17,18,18Dodecachloropentacycl o[12.2.1.1.0.0]octadeca-7,15-diene ("Dechlorane Plus" TM) [covering any of its individual anti- and synisomers or any combination thereof]	13560-89-9 135821-74-8 135821-03-3		CAS No. is not stated in the Candidate List, but stated in IEC62474.
	178	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear	-		
1 1	179	Octamethylcyclotetrasiloxane (D4)	556-67-2		
	180	Decamethylcyclopentasiloxane (D5)	541-02-6		
	181	Dodecamethylcyclohexasiloxane (D6)	540-97-6		
Se	182	Lead	7439-92-1		*3 , *4
lan	183	Disodium octaborate	12008-41-2	In the cases where concentration of contained substance exceeds 1000 ppm, using weight of each article composing supplies as denominator	
ò.	184	Benzo[ghi]perylene	191-24-2		
\(\frac{1}{2}\)	185	Terphenyl hydrogenated	61788-32-7		
ing	186	Ethylenediamine (EDA)	107-15-3		
Containing Avoidance	187	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7		
ပ	188	Dicyclohexyl phthalate (DCHP)	84-61-7		*1
	189	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6		
ĺ	190	Benzo[k]fluoranthene	207-08-9		*4 , *6
l	191	Fluoranthene	206-44-0		
	192	Phenanthrene	85-01-8		
	193	Pyrene	129-00-0		
	194	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8		
	195	2-methoxyethyl acetate	110-49-6		
		Tris(4-nonylphenyl, branched and linear) phosphite	3050-88-2		CAS No. is not stated in the
	196	(TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched	31631-13-7		Candidate List, but stated in
		and linear (4-NP)	106599-06-8		IEC62474.
	197	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-		
	198	4-tert-butylphenol	98-54-4		

<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 exemptions 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> If it is contained in textile products (including textile parts), refer to the Table N on page 17.

<sup>\*5.</sup> This is prohibited from being contained in fabric and leather products that might touch human skin .

<sup>\*6.</sup> Substances that can potentially be in direct contact and frequently in short-term or long-term contact with human skin or oral cavities are prohibited.

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

<u>Tabl</u>	e A: Asbestos (Containing Prohibition)	CAS No.
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
O	Triphenyitin fatty acid saits (C=9-11)	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
10	Tributyltin fluoride	1983-10-4
10	Tributyitiit iluonde	7304-48-5
11	Bis (tributyltin) 2, 3-dibromosuccinate	31732-71-5
''	dis (indutyitii) 2, 3-dibiomosuccinate	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	Tributyitiii Criionde	7342-38-3
19	Tributyltin cyclopentane carbonate = mixture	85409-17-2
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	<b>C</b> : Polychlorinated naphthalene (1 or more chlorine) (Containing Prohibition)	CAS No.
1	Naphthalene, chloro derivatives	70776-03-3
2	1-Chloronaphthalene	90-13-1
3	2-Chloronaphthalene	91-58-7
4	1,5-Dichloronaphthalene	1825-30-5
5	1,4-Dichloronaphthalene	1825-31-6
6	1,2-Dichloronaphthalene	2050-69-3
7	1,6-Dichloronaphthalene	2050-72-8
8	1,7-Dichloronaphthalene	2050-73-9
9	1,8-Dichloronaphthalene	2050-74-0
10	2,3-Dichloronaphthalene	2050-75-1
11	2,6-Dichloronaphthalene	2065-70-5
12	1,3-Dichloronaphthalene	2198-75-6
13	2,7-Dichloronaphthalene	2198-77-8
14	Chloronaphthalene	25586-43-0
15	Dichloronaphthalene	28699-88-9
16	Pentachloronaphthalene	1321-64-8
17	Trichloronaphthalene	1321-65-9
18	Hexachloronaphthalene	1335-87-1
19	Tetrachloronaphthalene	1335-88-2
20	1,2,3,4,5,6,7,8-Octachloronaphthalene	2234-13-1

Table C: Polychlorinated naphthalene (1 or more chlorine) (Containing Prohibition)

labic	(continued)	CAS No.
21	1,4,6-Trichloronaphthalene	2437-54-9
22	1,4,5-Trichloronaphthalene	2437-55-0
23	1,4,5,8-Tetrachloronaphthalene	3432-57-3
24	1,2,4,8-Tetrachloronaphthalene	6529-87-9
25	1,2,4,5-Tetrachloronaphthalene	6733-54-6
26	1,2,3,6,7,8-Hexachloronaphthalene	17062-87-2
27	1,2,3,4-Tetrachloronaphthalene	20020-02-4
28	1,3,5,8-Tetrachloronaphthalene	31604-28-1
29	Heptachloronaphthalene	32241-08-0
30	2,3,6,7-Tetrachloronaphthalene	34588-40-4
31	1,2,4-Trichloronaphthalene	50402-51-2
32	1,2,3-Trichloronaphthalene	50402-52-3
33	1,3,5-Trichloronaphthalene	51570-43-5
34	1,2,6-Trichloronaphthalene	51570-44-6
35	1,2,4,6-Tetrachloronaphthalene	51570-45-7
36	1,2,3,5-Tetrachloronaphthalene	53555-63-8
37	1,3,5,7-Tetrachloronaphthalene	53555-64-9
38 39	1,2,3,5,7-Pentachloronaphthalene	53555-65-0
40	1,2,5-Trichloronaphthalene	55720-33-7 55720-34-8
	1,2,7-Trichloronaphthalene	55720-34-8 55720-35-0
41	1,2,8-Trichloronaphthalene	55720-35-9
42	1,3,6-Trichloronaphthalene	55720-36-0
43	1,3,7-Trichloronaphthalene	55720-37-1
44	1,3,8-Trichloronaphthalene	55720-38-2
45	1,6,7-Trichloronaphthalene	55720-39-3
46	2,3,6-Trichloronaphthalene	55720-40-6
47	1,2,3,7-Tetrachloronaphthalene	55720-41-7
48	1,3,6,7-Tetrachloronaphthalene	55720-42-8
49	1,4,6,7-Tetrachloronaphthalene	55720-43-9
50	1,2,3,4,5,6,7-Heptachloronaphthalene	58863-14-2
51	1,2,3,4,5,6,8-Heptachloronaphthalene	58863-15-3
52	1,2,3,4,5,6-Hexachloronaphthalene	58877-88-6
53	1,2,4,7-Tetrachloronaphthalene	67922-21-8
54	1,2,5,6-Tetrachloronaphthalene	67922-22-9
55	1,2,5,7-Tetrachloronaphthalene	67922-23-0
56	1,2,6,8-Tetrachloronaphthalene	67922-24-1
57	1,2,3,4,5-Pentachloronaphthalene	67922-25-2
58	1,2,3,4,5,7-Hexachloronaphthalene	67922-27-4
59	1,2,4,5,6,8-Hexachloronaphthalene	90948-28-0
	1,2,4,5,7,8-Hexachloronaphthalene	103426-92-2
61	1,2,3,4,5,8-Hexachloronaphthalene	103426-93-3
62	1,2,3,5,7,8-Hexachloronaphthalene	103426-94-4
63	1,2,3,5,6,8-Hexachloronaphthalene	103426-95-5
64	1,2,3,4,6,7-Hexachloronaphthalene	103426-96-6
65	1,2,3,5,6,7-Hexachloronaphthalene	103426-97-7
66	1,2,3,6-Tetrachloronaphthalene	149864-78-8
67	1,2,6,7-Tetrachloronaphthalene	149864-79-9
68	1,2,5,8-Tetrachloronaphthalene	149864-80-2
69	1,2,3,8-Tetrachloronaphthalene	149864-81-3
70	1,2,7,8-Tetrachloronaphthalene	149864-82-4
71	1,2,3,7,8-Pentachloronaphthalene	150205-21-3
72	1,3,6,8-Tetrachloronaphthalene	150224-15-0
73	1,2,3,6,7-Pentachloronaphthalene	150224-16-1
74	1,2,4,6,7-Pentachloronaphthalene	150224-17-2
75	1,2,3,5,6-Pentachloronaphthalene	150224-18-3
76	1,2,4,5,7-Pentachloronaphthalene	150224-19-4
77	1,2,4,5,6-Pentachloronaphthalene	150224-20-7
78	1,2,4,7,8-Pentachloronaphthalene	150224-21-8
79	1,2,4,6,8-Pentachloronaphthalene	150224-22-9
80	1,2,3,6,8-Pentachloronaphthalene	150224-23-0
81	1,2,3,5,8-Pentachloronaphthalene	150224-24-1
82	1,2,4,5,8-Pentachloronaphthalene	150224-25-2
83	Other polychlorinated naphthalenes	

Table	Table D: Polybromodiphenyl ethers (PBDE) (Containing Prohibition)	
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>E</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 F: 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	CAS No.	
1	Alkanes, C10-13, chloro	85535-84-8
2	Alkanes, C10-12, chloro	108171-26-2
3	Alkanes, C12-13, chloro	71011-12-6
4	Alkanes, chloro	61788-76-9
5	Other chlorinated paraffins	-

Table	■ H: Perfluorooctane sulfonates (PFOS) (Containing Prohibition)	CAS No.
1	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)-sulfonyl]amino]ethyl acrylate and vinylidene chloride	306975-62-2
2	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7
3	Perfluorooctane sulfonyl fluoride	307-35-7
4	Other perfluorooctane sulfonates	-
Table	e: Dibutyltin Compounds (DBT) (Containing Prohibition)	CAS No.
1 abit	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	<b>J</b> : 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)  Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-	15571-58-1
_		
6	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	-
Tahle	<b>℮ K</b> : Hexabromocyclododecane(HBCDD) (Containing Prohibition)	CAS No.
1	Hexabromocyclododecane (HBOBB) (Containing Frombition)	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
Tahl <i>ı</i>	<b>L</b> : 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
7	Dibarate blanch nasara (DDAbA)	53-70-3
8	Dibenzo[a,h]anthracene(DBAhA)	00.00
8	•	
8 Table	■ M: PFOA、PFOA-salts、PFOA-esters (Containing Prohibition)	CAS No.
8 Table	■ M: PFOA、PFOA-salts、PFOA-esters (Containing Prohibition)  Perfluorooctanoic acid	CAS No. 335-67-1
8 Table	Perfluorooctanoic acid  Ammonium pentadecafluorooctanoate (APFO)	CAS No. 335-67-1 3825-26-1
8 Table 1 2 3	PFOA、PFOA-salts、PFOA-esters (Containing Prohibition)  Perfluorooctanoic acid  Ammonium pentadecafluorooctanoate (APFO)  Sodium salt of Perfluorooctanoic acid	CAS No. 335-67-1 3825-26-1 335-95-5
8 Table 1 2 3 4	Perfluorooctanoic acid  Ammonium pentadecafluorooctanoic acid  Sodium salt of Perfluorooctanoic acid  Potassium salt of Perfluorooctanoic acid	CAS No. 335-67-1 3825-26-1 335-95-5 2395-00-8
8 1 2 3 4 5	Perfluorooctanoic acid Ammonium pentadecafluorooctanoic acid Sodium salt of Perfluorooctanoic acid Potassium salt of Perfluorooctanoic acid Silver(1+) salt of Perfluorooctanoic acid	CAS No. 335-67-1 3825-26-1 335-95-5 2395-00-8 335-93-3
8 Table 1 2 3 4	Perfluorooctanoic acid  Ammonium pentadecafluorooctanoic acid  Sodium salt of Perfluorooctanoic acid  Potassium salt of Perfluorooctanoic acid	CAS No. 335-67-1 3825-26-1 335-95-5 2395-00-8

 Table N CMR substances in textile products (Containing Prohibition)

·ub	THE IN CIVIR Substances in textile products (Containing	CAS No.	Threshold Level(Contents concentration in homogenous material)	Remark	
1	Cadmium and its compounds (Listed under entries 28-30 to Appendices 1-6 in Annex XVII of REACH)	-	1 mg/kg (1ppm) (expressed as Cd metal that can be extracted from the material)		
2	Chromium VI compounds (Listed under entries 28-30 to Appendices 1-6 in Annex XVII of REACH)	-	1 mg/kg (1ppm) (expressed as Cr VI that can be extracted from the material)	Heavy Metals	
3	Arsenic compounds (Listed under entries 28-30 to Appendices 1-6 in Annex XVII of REACH)	-	1 mg/kg (1ppm) (expressed as As metal that can be extracted from the material)	neavy ivietais	
	Lead and its compounds (Listed under entries 28-30 to Appendices 1-6 in Annex XVII of REACH)	,	1 mg/kg (1ppm) (expressed as Pb metal that can be extracted from the material)		
5	Benzene	71-43-2	5 mg/kg(5ppm)	Benzene	
	Benz[a]anthracene	56-55-3	1 mg/kg (1ppm)		
	Benz[e]acephenanthrylene	205-99-2	1 mg/kg (1ppm)		
	benzo[a]pyrene	50-32-8	1 mg/kg (1ppm)		
	Benzo[e]pyrene	192-97-2	1 mg/kg (1ppm)		
	Benzo[j]fluoranthene Benzo[k]fluoranthene	205-82-3	1 mg/kg (1ppm)	Polycyclic	
	Chrysene	207-08-9	1 mg/kg (1ppm)	aromatic	
	-	218-01-9	1 mg/kg (1ppm)	hydrocarbons(	
	Dibenz[a,h]anthracene	53-70-3	1 mg/kg(1ppm)	PAHs)	
14	p-chlorobenzotrichloride	5216-25-1	1 mg/kg(1ppm)		
	α, α,α-trichlorotoluene; benzotrichloride	98-07-7	1 mg/kg(1ppm)		
16	α-chlorotoluene; benzyl chloride	100-44-7	1 mg/kg (1ppm)		
17	Formaldehyde	50-00-0	75 mg/kg (75ppm)	Formaldehyde	
18	1,2-benzenedicarboxylic acid; di-C 6-8-branched alkylesters, C 7-rich(DIHP)	71888-89-6	1000 mg/kg(1000ppm) (individually or in combination with other phthalates in this entry)		
19	Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	1000 mg/kg(1000ppm) (individually or in combination with other phthalates in this entry)		
20	Diisopentylphthalate(DIPP)	605-50-5	1000 mg/kg(1000ppm) (individually or in combination with other phthalates in this entry)	Phthalates	
21	Di-n-pentyl phthalate (DPP)	131-18-0	1000 mg/kg(1000ppm) (individually or in combination with other phthalates in this entry)		
22	Di-n-hexyl phthalate (DnHP)	84-75-3	1000 mg/kg(1000ppm) (individually or in combination with other phthalates in this entry)		
23	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone (NMP)	872-50-4	3000 mg/kg(3000ppm)		
24	N,N-dimethylacetamide (DMAC)	127-19-5	3000 mg/kg(3000ppm)	Solvents	
25	N,N-dimethylformamide; dimethyl formamide (DMF)	68-12-2	3000 mg/kg(3000ppm)		
26	1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1	2475-45-8	50 mg/kg(50ppm)		
27	Benzenamine, 4,4′-(4-iminocyclohexa- 2,5-dienylidenemethylene)dianiline hydrochloride; C.I. Basic Red 9	569-61-9	50 mg/kg (50ppm)	Dyestuff	
28	[4-[4,4' -bis(dimethylamino)benzhydrylidene]cyclohexa- 2,5-dien-1-ylidene]dimethylammonium chloride; C.I. Basic Violet 3	548-62-9	50 mg/kg(50ppm)		
29	4-chloro-o-toluidinium chloride	3165-93-3	30 mg/kg (30ppm)		
	2-Naphthylammoniumacetate	553-00-4	30 mg/kg (30ppm)		
31	4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate		30 mg/kg(30ppm)	Others	
-00	2,4,5-trimethylaniline hydrochloride	21436-97-5	30 mg/kg(30ppm)		
37					

Table	• O: Cadmium / Cadmium Compounds (Conditional Containing Prohibition)	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
J	·	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	P: 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 11	Sodium chromate  Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	7775-11-3 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
	Acids generated fromchromium trioxide andtheir oligomers:	2.0.000
47	· Chromic acid	7738-94-5
17	Dichromic acid	13530-68-2
	Oligomers of chromic acid and dichromic acid	
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	-
Table	Q: 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	Lead (II) phosphate	7446-27-7
11	Lead (II) chromate	7758-97-6
12	Lead titanium trioxide	12060-00-3
13 14	Lead sulfate, sulphuric acid, lead salt Lead difluoride	15739-80-7 7783-46-2
15	Lead dichoride	7758-95-4
16	Lead (II) acetate	301-04-2
17	Lead (II) acetate Lead (II) acetate, trihydrate	6080-56-4
18	Lead selenide	12069-00-0
19	Lead sulphate, tribasic	12202-17-4
	Lead stearate	1072-35-1
20		7784-40-9
21	Lead hydrogen arsenate	1104-40-3
	Lead hydrogen arsenate Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8
21		
21 22 23 24	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8 1344-37-2 3687-31-8
21 22 23 24 25	Lead chromate molybdate sulfate red (C.I. Pigment Red 104) C.I. Pigment Yellow 34 Trilead diarsenate Lead diazide	12656-85-8 1344-37-2 3687-31-8 13424-46-9
21 22 23 24 25 26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)  C.I. Pigment Yellow 34  Trilead diarsenate  Lead diazide  Lead 2,4,6-trinitro-m-phenylene dioxide	12656-85-8 1344-37-2 3687-31-8 13424-46-9 15245-44-0
21 22 23 24 25 26 27	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)  C.I. Pigment Yellow 34  Trilead diarsenate  Lead diazide  Lead 2,4,6-trinitro-m-phenylene dioxide  Lead dipicrate	12656-85-8 1344-37-2 3687-31-8 13424-46-9 15245-44-0 6477-64-1
21 22 23 24 25 26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)  C.I. Pigment Yellow 34  Trilead diarsenate  Lead diazide  Lead 2,4,6-trinitro-m-phenylene dioxide	12656-85-8 1344-37-2 3687-31-8 13424-46-9 15245-44-0

Table	R: 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	-
Table	S: 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	-
T-1:1	T. Domillium /Domillium Communication A. 11 (1997)	04041
	T: Beryllium /Beryllium Compounds (Containing Avoidance)	CAS No.
1	Beryllium  Beryllium	7440-41-7
2	Beryllium-aluminum alloy	12770-50-2
<u>3</u>	Beryllium chloride Beryllium fluoride	7787-47-5 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	Beryllium copper	11108-64-8
12	Other beryllium compounds	-
		- CAS No
Table	e U: Nickel / Nickel Compounds (Containing Avoidance)	CAS No.
Table 1	U: Nickel / Nickel Compounds (Containing Avoidance)	7440-02-0
<b>Table</b> 1 2	Nickel / Nickel Compounds (Containing Avoidance)  Nickel  Nickel carbonyl	7440-02-0 13463-39-3
<b>Table</b> 1 2 3	Nickel / Nickel Compounds (Containing Avoidance)  Nickel  Nickel carbonyl  Nickel oxide	7440-02-0 13463-39-3 1313-99-1
1 2 3 4	Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate	7440-02-0 13463-39-3 1313-99-1 3333-67-3
<b>Table</b> 1 2 3	Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4
1 2 3 4 5	Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate	7440-02-0 13463-39-3 1313-99-1 3333-67-3
1 2 3 4 5 6	Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0
Table 1 2 3 4 5 6 7 8 9	Nickel / Nickel Compounds (Containing Avoidance)  Nickel carbonyl Nickel oxide Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel (II) sulfate, hexahydrate	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0
Table 1 2 3 4 5 6 7 8 9 10	Nickel / Nickel Compounds (Containing Avoidance)  Nickel carbonyl Nickel oxide Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel (II) sulfate, hexahydrate Nickel (II) sulfate, heptahydrate	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1
Table 1 2 3 4 5 6 7 8 9 10	Nickel / Nickel Compounds (Containing Avoidance)  Nickel   Nickel carbonyl   Nickel oxide   Nickel oxide   Nickel ous carbonate   Nickel sulfate   Nickel sulfide   Nickel (II) chloride   Nickel (II) chloride, hexahydrate   Nickel(II) sulfate, hexahydrate   Nickel(II) sulfate, heptahydrate   Nickel(II) sulfate, heptahydrate   Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9
Table 1 2 3 4 5 6 7 8 9 10 11	Nickel / Nickel Compounds (Containing Avoidance)  Nickel   Nickel carbonyl   Nickel oxide   Nickel oxide   Nickel ous carbonate   Nickel sulfate   Nickel sulfide   Nickel (II) chloride   Nickel (II) chloride, hexahydrate   Nickel (II) sulfate, hexahydrate   Nickel (II) sulfate, heptahydrate   Nickel (II) sulfate, heptahydrate   Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53)   Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8
Table 1 2 3 4 5 6 7 8 9 10 11 12 13	Nickel / Nickel Compounds (Containing Avoidance)  Nickel   Nickel carbonyl   Nickel oxide   Nickel oxide   Nickelous carbonate   Nickel sulfate   Nickel sulfide   Nickel (II) chloride   Nickel (II) chloride, hexahydrate   Nickel (II) sulfate, hexahydrate   Nickel (II) sulfate, heptahydrate   Nickel (II) sulfate, heptahydrate   Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53)   Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161)   Cobalt titanate green spinel (C.I. Pigment Green 50)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9
Table 1 2 3 4 5 6 7 8 9 10 11	Nickel / Nickel Compounds (Containing Avoidance)  Nickel   Nickel carbonyl   Nickel oxide   Nickel oxide   Nickel ous carbonate   Nickel sulfate   Nickel sulfide   Nickel (II) chloride   Nickel (II) chloride, hexahydrate   Nickel (II) sulfate, hexahydrate   Nickel (II) sulfate, heptahydrate   Nickel (II) sulfate, heptahydrate   Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53)   Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8
Table 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Nickel / Nickel Compounds (Containing Avoidance)  Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel (II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table	Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel (II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Nickel(II) sulfate, heptahydrate Nickel (II) sulfate, heptahydrate Nickel niobium titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8
Table 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Nickel / Nickel Compounds (Containing Avoidance)  Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel (II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6 - CAS No.
Table 1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table	Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) sulfate, hexahydrate Nickel(II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Nickel(II) sulfate, heptahydrate Nickel niobium titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance) Diisononyl phthalate (DINP)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table	Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel (II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Nickel(II) sulfate, heptahydrate Nickel (II) sulfate, heptahydrate Nickel niobium titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table 1	Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Nickel(II) sulfate, heptahydrate Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance)  Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table	Nickel / Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance)  Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table 1 2	Nickel / Nickel Compounds (Containing Avoidance)  Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance)  Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Dii-n-octyl phthalate (DNOP) Diisooctyl phthalate (DNOP)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table 1 2 3 4	Nickel / Nickel Compounds (Containing Avoidance)  Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance) Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Diisooctyl phthalate (DNOP) Diisooctyl phthalate (DNOP) Diisooctyl phthalate (DNOP)	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6 -  CAS No. 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 27554-26-3  CAS No.
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table 1  Table 1	Nickel Nickel Compounds (Containing Avoidance)  Nickel Sulfate Nickel sulfate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Nickel(II) sulfate, heptahydrate Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance)  Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Diin-octyl phthalate (DNOP) Diisooctyl phthalate (DNOP) Diisooctyl phthalate (DNOP) Diisooctyl phthalate (DNOP) Uranium-238	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6 -  CAS No. 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 27554-26-3  CAS No. 7440-61-1
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table 1 2  Table 1 2	Nickel Nickel Compounds (Containing Avoidance)  Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickel sulfate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel(II) sulfate, heptahydrate Nickel(II) sulfate, heptahydrate Antimony nickel titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance)  Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Diisooctyl phthalate(DIOP)  W: Radioactive substances (Containing Avoidance) Uranium-238 Radon	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6 -  CAS No. 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 27554-26-3  CAS No. 7440-61-1 10043-92-2
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table 1 2 3 4	Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel niobium titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance) Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Diisooctyl phthalate (DNOP) Diisooctyl phthalate(DIOP)  W: Radioactive substances (Containing Avoidance) Uranium-238 Radon Americium-241	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6 -  CAS No. 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 27554-26-3  CAS No. 7440-61-1 10043-92-2 14596-10-2
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table 1 2 3 4	Nickel / Nickel Compounds (Containing Avoidance)  Nickel carbonyl Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfide Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel niobium titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance)  Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Diisooctyl phthalate(DIOP)  W: Radioactive substances (Containing Avoidance) Uranium-238 Radon Americium-241 Thorium-232	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6 -  CAS No. 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 27554-26-3  CAS No. 7440-61-1 10043-92-2 14596-10-2 7440-29-1
Table  1 2 3 4 5 6 7 8 9 10 11 12 13 14  Table 1 2 3 4	Nickel Nickel carbonyl Nickel oxide Nickel oxide Nickelous carbonate Nickel sulfate Nickel sulfate Nickel (II) chloride Nickel (II) chloride, hexahydrate Nickel(II) sulfate, hexahydrate Nickel niobium titanium oxide yellow (C.I. Pigment Yellow 53) Nickel niobium titanium yellow rutile (C.I. Pigment Yellow 161) Cobalt titanate green spinel (C.I. Pigment Green 50) Other nickel compounds  V: Phthalates (Containing Avoidance) Diisononyl phthalate (DINP)  1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP) Di-n-octyl phthalate (DNOP) Diisooctyl phthalate (DNOP) Diisooctyl phthalate(DIOP)  W: Radioactive substances (Containing Avoidance) Uranium-238 Radon Americium-241	7440-02-0 13463-39-3 1313-99-1 3333-67-3 7786-81-4 12035-72-2 7718-54-9 7791-20-0 10101-97-0 10101-98-1 8007-18-9 68611-43-8 68186-85-6 -  CAS No. 28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0 27554-26-3  CAS No. 7440-61-1 10043-92-2 14596-10-2

**Table X:** Brominated flame retardants (except PBB,PBDE and HBCDD)

labit	<b>X</b> : Brominated flame retardants (except PBB,PBDE and HBCDD)	0401
	(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	94334-64-2
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	20566-35-2
27	2, 3-Dibromo-2-butene-1, 4-diol	3234-02-4
28	Dibromo-neopentyl-glycol	3296-90-0
29	Dibromo-propanol	96-13-9
30	Tribromo-neopentyl-alcohol	36483-57-5
31	Poly tribromo-styrene	57137-10-7
32	Tibromo-styrene	61368-34-1
33	Poly-dibromo-styrene	31780-26-4
34	Bromo-/Chloro-paraffins	68955-41-9
35	Bromo-/Chloro-alpha-olefin	82600-56-4
36	Vinylbromide	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	
40	Pentabromo-benzyl bromide	87-83-2 38521-51-6
42	Pentabromo-benzyl-acrylate, monomer	59447-55-1
43 44	Pentabromo-benzyl-acrylate, polymer	59447-57-3
	TBBA-bisphenol A-phosgene polymer	32844-27-2 139638-58-7
45 46	Brominated epoxy resin end-capped with tribromophenol	
	Bis (methyl) tetrabromo-phtalate	55481-60-2
47	Bis (2-ethlhexyl) tetrabromo-phtalate	26040-51-7
48 49	TBPA, glycol-and propylene-oxide esters	75790-69-1
	N, N'-Ethylene-bis-(tetrabromo-phthalimide)	32588-76-4
50 51	Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	52907-07-0
	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 Y: 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	-

Table	CAS No.	
1	Lithium Perchlorate	7791-03-9
2	Ammonium perchlorate	7790-98-9
3	Barium perchlorate	13465-95-7
4	Lead perchlorate	13637-76-8
5	Magnesium Perchlorate	10034-81-8
6	Perchloric acid, cobalt (2+) salt	13455-31-7
7	Perchloric acid, mercury(2+) salt	7616-83-3
8	Perchloric acid, nickel(2+) salt, hexahydrate	13520-61-1
9	Nickel perchlorate	13637-71-3
10	Potassium Perchlorate	7778-74-7
11	Sodium Perchlorate	7601-89-0
12	Thallium(3+) perchlorate	15596-83-5
13	Other perchlorates	-
		0.10.11

Table	CAS No.	
1	Poly(oxy-1,2-ethanediyl), α-(4-nonylphenyl)-ω-hydroxy-	26027-38-3
2	Ethanol, 2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]-	7311-27-5
3	Ethanol, 2-[2-(4-nonylphenoxy)ethoxy]-	20427-84-3
4	3,6,9,12,15-Pentaoxaheptadecan-1-ol,17-(4-nonylphenoxy)-	34166-38-6
5	3,6,9,12,15,18-Hexaoxaeicosan-1-ol, 20-(4-nonylphenoxy)-	27942-27-4
6	3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol,26-(4-nonylphenoxy)-	14409-72-4
7	Ethanol, 2-(4-nonylphenoxy)-	104-35-8
8	Isononylphenol ethoxylate	37205-87-1
9	Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0
10	4-tert-Nonylphenol diethoxylate	156609-10-8
11	Other 4-Nonylphenol, branched and linear, ethoxylated	-

Table	CAS No.	
1	Perfluorohexane-1-sulphonic acid	355-46-4
2	Ammonium perfluorohexane-1-sulphonate	68259-08-5
3	Potassium perfluorohexane-1-sulphonate	3871-99-6
4	Sodium perfluorohexane-1-sulphonate	2923-26-4
5	Other perfluorohexane-1-sulphonic acid and its salts	-

#### Ozone Layer Protection Law Global Warming Prevention Law Volatile Organic Compounds **EU Directives** Applicable Standards and **Applications of Restricted** Chemical Substances **Use Prohibition Substances** End Use Applications 1,1,1-trichloroethane UP Detergents, solvents UP CFC group Washing agents, coolants, forming agents HBFC group UP Extinguishants UP Extinguishants, washing agents Halon group UP Bromochloromethane Solvents, Extinguishants 6 Tetrachloroethylene 0 Solvents Ô Solvents, washing agents 0 Benzene Я Ó Pentachloroethane Solvents, washing agents 9 1,1,1,2-tetrachloroethane Solvents 10 Hexachloroethylene Solvents O 11 Methyl bromide Soil fumigants UP 12 Carbon tetrachloride Solvents, washing agents 13 1,1,2,2-tetrachloroethane Solvents, washing agents 14 1,1,2-trichloroethane 0 1.1-dichloroethylene Solvents (A) (C) (D) (B) **End Use Applications Use Avoidance Substances** 1,2-dichloroethane 0 Solvents, washing agents 1,2-dichloroethylene 0 Solvents, washing agents 3 1,3-dichloropropene C Soil fumigants 0 HCFC group Washing agents HFC group Washing agents, coolants 6 PFC group Ŏ Washing agents, coolants Dichloromethane 0 Solvents, washing agents Cis-1,2-dichloroethylene 0 Solvents, washing agents O Trichloroethylene Washing agents 10 Nitrous oxide Anaesthetics for medical treatments Ô 11 Sulfur hexafluoride Etching gas, insulated gas

(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
- (D) EU Regulations

12 Chloroform

- O: Relevant to volatile organic compounds which might cause soil pollution (SII Standards)

Solvents, anaesthetics

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 Law:

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

Special Chemical Substances Regulations:

Pollutant Release Transfer

Registers (PRTR) Law:

**EU Regulations REACH** Regulation 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.

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.

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.

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.

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), DEHP, DBP, BBP, DIBP)

		(A)	(B)	(C)	(D)	(E)	1
						E	
		afe	Chemical Substance Examination	Special Cho Substance Regulation	PRTR Law		
		\$ 5	eta n	ila Sta	R	l g	
		and	nce a	£ing Ω	a	ct	
		T 2	Chemical Substance Examination I	her	<	Directives	
		Safety and Health	law	Special Chemica Substance Regulation		S	
Cor	ntaining Prohibition Substances	₹	€	<u> </u>			End Use Applications
	4-nitrobiphenyl and its salt	MP			1		Synthetic intermediates
	DDT		1				Antiseptics, fungicides, paints
	Asbestos			2	S1	0	Adiabators, insulators, bulking agents
4	Aldrin (HCB)		1				Antiseptics, fungicides, paints
5	Endrin		1				Antiseptics, fungicides, paints
6	Chlordane		1				Adhesives, paints
7	Dieldrin		1				Antiseptics, fungicides, paints
	Bis(chloromethyl) ether	MP					Insecticides
	Tributyl tin oxide (TBTO)		1				Antiseptics, paints, pigments
10	Tri-substituted organostannic compounds (including					0	Fungicides,antiseptics,paints,pigments
	Tributyl tin and Triphenyl tin)	ļ	1	]			i ungroides, antisepties, paints, pigments
	Hexachloro benzene (HCB)		1				Disinfectants, antirust
12	Polychlorinated naphthalene		1			0	Lubricants, paints
	(1 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)	<u> </u>		<u> </u>		0	Fire retardant
	Azo compounds	<u> </u>		<u> </u>			Pigments,dyes
	2,4,6-Tri-tert-butylphenol		1				Antioxidants
	N,N'-ditolyl-p-phenylenediamine						Antiquidante lubricante
19	N-toly-N'-xylyl-p- phenylenediamine		1				Antioxidants, lubricants
20	N,N'-dixylyl-p-phenylenediamine Chlorinated paraffins (C10-13)		1			0	Plasticizer, fire retardant
	Mirex	1	1	1		0	Fire retardant
	Yellow phosphor	MP	- '				Lucifer
	Toxaphene	IVII	1				Insecticide
	Monomethyl-dichloro-diphenyl methane (DBBT)		<del>- '-</del>			0	Insulation oil, lubricants
	Di-u-oxo-di-n-butyl-stanniohydroxyborane (DBB)					ŏ	Insulation oil, lubricants
	Monomethyl-tetrahlorodiohenyl-methane					ŏ	Insulation oil, lubricants
	Monomethyl-dichloro-diphenyl-methane					Ŏ	Insulation oil, lubricants
	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dim					Ť	
28	ethylethyl)- (UV-320)		1				Ultraviolet rays inhibitor
29	Perfluorooctane sulfonates (PFOS)		1			0	surface-active agent, paints
	Dimethyl fumarate (DMF)					0	Insecticide, fungicides
31	Cobalt dichloride					0	Water indicator in desiccants
	Formaldehyde				1		Antiseptics,
	Dibutyltin (DBT) compounds					0	PVC stabilizer and catalysts for curing silicone
	Dioctyltin (DOT) compounds					0	resins and polyurethane resins.
35	Tris(2,3-dibromopropyl)phosphate(TRIS)					0	Fire retardant
	Tris (1-aziridinyl) phosphine oxide(TEPA)						Fire retardant
	Hexabromocyclododecane(HBCDD)					0	Fire retardant
	Polycyclic aromatic hydrocarbons(PAH)			ļ		0	Antiseptics, lubricants
	Tris(2-chloroethyl)phosphate (TCEP) *1					0	Fire retardant,lubricants
	T. (4.11. 0.1. 1.1. (2.2. 1.1. 1.1. 1.1. 1.1. 1.1.			1			Fire retardant
40	Tris(1-chloro-2-propyl)phosphate (TCPP) *1			i e			E:
40 41	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) *1					_	Fire retardant
40 41 42	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) *1 PFOA、PFOA-salts、PFOA-esters					0	surface-active agent, paints
40 41 42 43	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) *1 PFOA、PFOA-salts、PFOA-esters 4,4'-isopropylidenediphenol (bisphenol A:BPA)				1	0	surface-active agent, paints Epoxy resin curing agents,thermal paper
40 41 42 43 44	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) *1 PFOA、PFOA-salts、PFOA-esters		1	2	1 1		surface-active agent, paints

<sup>1</sup>United States. Vermont State. Act 85

- (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 Populations
- (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

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

ſ		(A)	(B)	(C)	(D)	(E)	
Cor	nditional containing Prohibition Subst	\(\sigma_{\overline}\)	Chemical Substance Examination Law	Special Chemical Substance Regulation	PRTR Law	EU Directives	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	Bis (2-ethylhexyl)phthalate (DEHP)				1	0	PVC plasticizer
6	Benzyl butyl phthalate (BBP)				1	0	Plasticizer
7	Dibutyl phthalate (DBP)				1	0	Plasticizer
8	Diisobutyl phthalate (DIBP)					0	Plasticizer
9	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.

	taining Avoidance Substances	(A)	(B)	(C)	(D)	(E)	End Use Applications
1	Arsenic / arsenic compounds			2	S1	0	Semiconductors, catalysts, pigments
2	Beryllium / beryllium compounds	MA		1	S1		Ceramic materials, catalysts
3	Nickel compounds				1		Pigments, paints
4	Phthalic ester				1		Plasticizer, pigments, paints
5	Radioactive material						Optical characteristic
	Brominated flame retardants					O	Fire retardant
7	Chlorinated flame retardants						Fire retardant
	Red phosphorus						Fire retardant
	• •						
9	perchlorate ※						Lithium primary batteries
10	Anthracene				S1	0	Material of crude carbon black, insecticides, wood preservatives, pesticides, plant growth regulators
11	4,4'-methylenedianiline					0	Epoxy resin curing agents, adhesive curing agents
	, ,						Water indicator in desiccants, ammonia gas absorbent, gas
12	Cobalt dichloride					0	masks
13	Diarsenic pentaoxide					0	Dye, metallurgy, industrial special glass, wood preservatives
	Diarsenic trioxide					Ö	Glass and enamel bleaching, special glass cleaner and
							Used to produce chromium compounds (chromium sulfate) and
15	Sodium dichromate				S1	0	inorganic chromium acid pigment
16	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)					0	Fragrance
	Lead hydrogen arsenate				1	0	Pesticides,chemical weapons, wood preservatives
18	Triethyl arsenate					0	Pesticides, wood preservatives
19	Anthracene oil					0	Antiseptic, waterproof material. Used to produce other
19	Antinacene on					)	substances such as anthracene and carbon black
20	Anthracene oil, anthracene paste, distn. lights					0	Antiseptic, waterproof material. Used to produce other
20	• • •					)	substances such as anthracene and carbon black
21	Anthracene oil, anthracene paste,anthracene					С	Antiseptic, waterproof material. Used to produce other
21	fraction					)	substances such as anthracene and carbon black
22	Anthracene oil.anthracene-low					0	Antiseptic, waterproof material. Used to produce other
	, and accord on, and accord for					_	substances such as anthracene and carbon black
23	Anthracene oil, anthracenepaste					0	Antiseptic, waterproof material. Used to produce other
	, ,						substances such as anthracene and carbon black
24	Coal tar pitch, high temperature					0	Electrode, molding material for carbon products, insulation filler,
25	Aluminosilicate, Refractory Ceramic Fibres						binder for briquette
25	Zirconia Aluminosilicate,					0	Substitute materials of the asbestos such as insulation Substitute materials of the asbestos such as insulation
26	Refractory Ceramic Fibres					0	materials
							Dye, used to produce toluene diisocyanate which is a raw
27	2,4-Dinitrotoluene					0	material of plasticized polyurethane foamed material
28	Lead chromate				1	0	Pigment, bleach
							Additive plasticizers and viscocity regulator which provide
29	Lead chromate molybdate sulfate red				1	0	flameproofness to acrylic resin, polyurethane, polyvinyl
	(C.I. Pigment Red 104)				•		chloride and other polymer, lubricant additives
	O.L. D'						
30	C.I. Pigment Yellow 34				1	0	Raw material for synthetic resin paints, inks, rubber
							Paper strengthening agents, fiber processing agents,
31	Acrylamide					0	processing agents for increasing adhesiveness, acrylamide
	,						thermosetting paint synthesis materials, coagulants, and soil
32	Trichloroethylene					0	Metal part cleaning and removal, solvents in adhesives, etc.
	,						Pesticides, personal care products, food additives, glass,
33	Boric acid					0	ceramic rubber flame retardants, etc.
34	Disodium tetraborate, anhydrous					0	Glass, glass fiber, ceramic, detergents, cleaners, personal care
	Tetraboron disodium heptaoxide, hydrate		<b>1</b>			Ö	products, industrial fluids, adhesives, etc.

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

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Con	taining Avoidance Substances	Occupational Safety and Health Law	Chemical Substance Examination Law	Special Chemical Substance	PRTR Law	EU Directives	
	ntinued)	fety					End Use Applications
36	Sodium chromate				S1	0	Laboratories (chemical reagents) and other chrome compound manufacturing
37	Potassium chromate				S1	0	Leather product tanning, metal processing and coating, pigment/ink manufacturing, etc.
38	Ammonium dichromate				S1	0	Leather product tanning, oxidants, photo sensitive screen (CRT) manufacturing, etc.
39	Potassium dichromate				S1	0	Leather tanning, metal processing and coating, and
	Cobalt(II) sulphate					Ō	Surface treatment agents, anticorrosives, pigments
41	Cobalt(II) dinitrate					0	Surface treatment agents, catalysts
42	Cobalt(II) carbonate					0	Adhesives, pigments
	Cobalt(II) diacetate					0	Surface treatment agents, dyes, rubber adhesion
	2-Methoxyethanol					0	Solvents,fuel additive
	2-Ethoxyethanol					0	Solvents
46	Chromium trioxide				S1	0	Metal surface treating agents,antiseptics
47	Acids generated fromchromium trioxide andtheir oligomers:  ·Chromic acid ·Oligomers of chromic acid and dichromic acid				S1	0	Metal surface treating agents,antiseptics
40	3						
	2-ethoxyethyl acetate strontium chromate					0	Solvents Apticography of
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched					0	Anticorrosives
50	and linear alkyl esters (DHNUP)						PVC plasticizers
	Hydrazine					0	Fire retardant,
	1-methyl-2-pyrrolidone 1,2,3-trichloropropane					0	Solvents for paint dried at high temperature and washing agents Intermediates for insecticides and intermediates for chlorinated
54	1,2-Benzenedicarboxylic acid, di-C6-8-branched					0	solvents PVC plasticizers, bulking agents, and ink plasticizers
	alkyl esters, C7-rich(DIHP) Dichromium tris(chromate)				S1	0	Metal surface treatment chemical
	Potassium hydroxy-octaoxodizincatedichromate				S1	ŏ	Coating films and sealants
	Pentazinc chromate octahydroxide				S1	Ŏ	Coating films and paints
58	Formaldehyde, oligomeric reaction products with aniline (technical MDA)						Epoxy resin curing agents
	Bis(2-methoxyethyl) phthalate(DMEP)					0	Plasticizers for paint and varnish
60	2-Methoxyaniline;o-Anisidine					0	Colored paper and dye
61	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)					0	Mainly used in the manufacture of polymer preparations and of ethoxylates.
62	1,2-Dichloroethane					0	Solvents
	Bis(2-methoxyethyl) ether					0	Solvents for chemical reaction and battery electrolytes
	Arsenic acid					0	Fining agents to disperse air bubbles in glass
	Calcium arsenate					0	Chemical for separation of nickel from molten copper
	Trilead diarsenate				1		Product from refining and smelting of non-ferrous metals
	N,N-dimethylacetamide (DMAC)						Solvents, paints, and ink remover
	4,4'-methylene-bis-(2-chloroaniline)						Curing agents for polyurethane resins
	Phenolphthalein				4		Indicator in medical use and pH indicator
70	Lead azide Lead diazide				1	0	Detonator  Evaluative and detenator
	Lead styphnate Lead dipicrate				1	0	Explosive and detonator
72 73	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)				1	0	Detonator Solvents and auxiliary agents in processing
74	1,2-dimethoxyethane; ethylene glycol dimethyl					0	Solvents and electrolytes for lithium ion battery
75	ether (EGDME) Diboron trioxide					0	Glass, ceramics, and fire retardant
	Formamide					ŏ	Solvents, reagents, and plasticizers
	Lead(II) bis(methanesulfonate)				1	ŏ	Chemicals for plating of electronic parts
78	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
79	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
80	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)					0	Dyes, pigments
81	N,N,N'N'-tetramethyl-4,4'-methylenedianiline (Michler's base)					0	Dyes
82	C.I, Basic Violet 3					0	Chemicals for dyeing of paper and ink for jet printing and ballpoint pen

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  (E) EU Directives
- - O: Relevant to REACH Regulation or RoHS Directives

		(A)	(D	)	(U)	(U)	(E)	
Con	taining Avoidance Substances	Occupational Safety and Health Law	Substance Examination Law	Chemical	Substance Regulation	PRTR Law	EU Directives	
	ntinued)	afety	×		<u> </u>	1		End Use Applications
	[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
84	α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1- methanol						0	Dyes, inks
	4,4'-bis(dimethlamino)- 4"-(methylamino)trityl						0	Dyes, inks
	Pentacosafluorotridecanoic acid Tricosafluorododecanoic acid						0	Production of the fluoric resin and additive, surfactant Production of the fluoric resin and additive, surfactant
	Henicosafluoroundecanoic acid						Ö	Production of the fluoric resin and additive, surfactant
	Heptacosafluorotetradecanoic acid						0	Production of the fluoric resin and additive, surfactant
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues						0	Water paint
91	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
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))						0	Synthetic resin rubber blowing agent, bleach catalysts, cement fillers, colorants, bleach photo
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)						0	Plasticizer for the thermoplastic resin, curing agent for epoxy resins, insecticides, anticorrosives
94	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
95	Methoxy acetic acid						0	Synthetic intermediates,anticorrosives
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear						0	Laboratories (chemical reagents)
97	Diisopentylphthalate (DIPP) N-pentyl-isopentylphtalate						0	PVC plasticizers,pesticides Plasticizer
	1,2-Diethoxyethane						Ö	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 Lead (II) carbonate basic					1	0	Anticorrosive pigment
	Lead oxide sulfate (basic lead sulfate)		1			1	0	Pigments, paints,pvc stabilizers Battery electrode materials,phosphor
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)					1	0	PVC stabilizers
	Dioxobis(stearato)trilead					1	0	PVC stabilizers
	Fatty acids, C16-18, lead salts					1		PVC stabilizers
	Lead bis(tetrafluoroborate) Lead cynamidate					1	0	Solder plating, alloy plating, electroplating electrolyte Anticorrosive pigment
	Lead dinitrate		1			1	0	Pigments
	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
113	Lead titanium trioxide					1	0	Electronic ceramic material Electronic ceramic material, Piezoelectric devices, Piezoelectric
	Lead Titanium Zirconium Oxide					1	0	buzzers  PVC stabilizers
	Pentalead tetraoxide sulphate C.I. Pigment Yellow 41					1	0	2 2 3 3 3 3
	· · ·		<del>                                     </del>			1	0	Pigments
	Silicic acid, barium salt, lead-doped					4	0	Lamp fluorescent material
_	Silicic acid, lead salt					1	0	Glass materials
	Sulfurous acid, lead salt, dibasic		-		-	1	0	PVC stabilizers
	Tetralead Tetralead trioxide sulphate		1		-	1	0	Gasoline additive
_	<u> </u>		-		-	_		Battery electrode material, PVC stabilizer
122	Trilead dioxide phosphonate					1	0	PVC stabilizer

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

(A) Occupational Safety and Health Law

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		(A)	(B)	(C)	(D)	(E)	
			E Su C	Special Chemical Substance Regulation	PR	EU	
		Occupational Sa and Health Law	iemi ibsta amii	ecia bsta	PRTR Law	J Dir	
		atio ealth	ical ance	al Ch	Lav	Directives	
_		nal : 1 La	B "	) em		ves	
	ntaining Avoidance Substances	Occupational Safety and Health Law	a ¥	ica			
	ntinued)	ety					End Use Applications
	Furan					0	Solvent
	Propylene oxide; 1,2-epoxypropane; methyloxira	ne				0	Pigments, pharmaceuticals, fungicides
_	Diethyl sulphate					0	Dyes, pharmaceuticals, agrochemicals, fine chemicals
	Dimethyl sulphate					0	Manufacture of dyes and methylcellulose, stabilizer
	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-					0	
	Dinoseb 4,4'-methylenedi-o-toluidine					0	Polymer material  Curing agent for epoxy resin and urethane resin
129	4,4 -metriyleriedi-o-toluldirle					0	Polyimide, polyamide imide, polyamide material. Cross-linking agent
	4,4'-oxydianiline and its salts					0	and polymer stock epoxy, urethane
131	4-Aminoazobenzene; 4-Phenylazoaniline					0	Dye, reagent
132	4-methyl-m-phenylenediamine (2,4-toluene- diamine)					0	Polyurethane resin raw materials, dye intermediates
133	6-methoxy-m-toluidine (p-cresidine)					0	Dye intermediate
	Biphenyl-4-ylamine					0	Dyes, pesticide intermediate
	o-aminoazotoluene					0	Dyes, pharmaceutical intermediates
	o-Toluidine; 2-Aminotoluene					0	Reagent, dye intermediate
	N-methylacetamide					0	Solvent, organic synthetic raw material
	1-bromopropane; n-propyl bromide			_	C 1	00	Pharmaceuticals,pesticide intermediates, cleaning solvent
	Cadmium Cadmium oxide			2	S1 S1	00	Ni-Cd batteries, pigments, plating, stabilizers, alloys Ni-Cd batteries, plating, alloys
	Dipentyl phthalate(DPP)				31	C	Plasticizer
	4-Nonylphenol,branched and linear,ethoxylated						T INCHOLED!
	[substances with a linear and/or branched alkyl						
	chain with a carbon number of 9 covalently						
142	bound in position 4 to phenol,ethoxylated					0	Paints, Emulsifier
	covering UVCB- and well-defined substances,						i amo, Emalono
	polymers and homologues, which include any of						
	the individual isomers and/or combinations						
143	Cadmium sulphide			2	S1	0	Pigments
	Dihexyl phthalat				0,	Ö	Plasticizer
	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-						
145	diylbis(azo)]bis(4-aminonaphthalene-1-					0	Dye for e.g. textile and paper
	sulphonate) (C.I. Direct Red 28)					_	,,
	Disodium 4-amino-3-[[4'-[(2,4-						
	diaminophenyl)azol[1 1'-biphenyl]-4-yllazol -5-					_	Dye leather, plastics, vegetable-ivory buttons andwood flour used as a
146	hydroxy-6-(phenylazo)naphthalene-2,7-					0	resin filler; produce aqueous inks
	disulphonate (C.I. Direct Black 38)						.,,,
147	Imidazolidine-2-thione; 2-imidazoline-2-thiol						
	Lead di(acetate)					0	Vulcanisation agent
148	TLEAU UII ACEIAIE)				1	0	Vulcanisation agent Paints, waterproof material
	Trixylyl phosphate				1		· · ·
	Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester,				1	0	Paints, waterproof material Fire-resistant hydraulic oil material
149 150	Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP)				1	0	Paints, waterproof material
149 150 151	Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride			2	1 S1	0 0	Paints, waterproof material Fire-resistant hydraulic oil material Plasticizer, Jointing agents Electroplating, component for production of photovoltaic modules
149 150 151 152	Trixylyl phosphate 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear(DIHP) Cadmium chloride Sodium perborate; perboric acid, sodium salt			2	•	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
149 150 151 152	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
149 150 151 152	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	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
149 150 151 152 153 154	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-			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
149 150 151 152 153	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-			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 Heat stabiliser in the production of rigid and to a minor extent of plasticised PVC.
149 150 151 152 153 154	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-			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
149 150 151 152 153 154 155	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	00 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.
149 150 151 152 153 154 155	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-			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
149 150 151 152 153 154 155	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	00 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.
149 150 151 152 153 154 155	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	00 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
149 150 151 152 153 154 155	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	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.
149 150 151 152 153 154 155	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-			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.  Intermediate for industrial production of inorganic cadmium
149 150 151 152 153 154 155 156	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-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-			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.  Intermediate for industrial production of inorganic cadmium
149 150 151 152 153 154 155	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-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-			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.  Intermediate for industrial production of inorganic cadmium
149 150 151 152 153 154 155 156	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-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-			2	S1	000000000000000000000000000000000000000	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
- Classification | Substances 2; Classification | Substances 3; Classification | Substances 3 |
   N: Upon emissions or discharge of those substances, a disposal system is needed.
   PRTR Law
- - 1: Classification 1-Designated Chemical Substances
  - S1: Special Classification 1-Designated Chemical Substances
     Classification 2-Designated Chemical Substances
- (E) EU Directives
  - O: Relevant to REACH Regulation or RoHS Directives

		(A)	(B)	(C)	(D)	(E)	]
Con	taining Avoidance Substances	Occupational Safety and Health Law	Chemical Substance Examination Law	Special Chemical Substance Regulation	PRTR Law	EU Directives	
(cor	ntinued)	fety					End Use Applications
	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters;1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5,CAS No.84-75-3)					0	Adhesives,plasticizer, lubricants
	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]					0	Fragrance ingredient
161	1,3-propanesultone					0	Solvents and electrolytes for lithium ion battery,law material for synthetic resin and fiber,paint
162	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2- yl)phenol (UV-327)					0	UV-protection agents in coatings, plastics,rubber, polyurethanes and cosmetics
	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl)phenol (UV-350)					0	UV-protection agents in coatings, plastics,rubber, polyurethanes and cosmetics
164	Nitrobenzene				1	0	Production of chemicals and intermediate for further chemical processing
165	Perfluorononan-1-oic-acid and its sodium and ammonium salts					0	a processing aid for fluoropolymer manufacture, and also as a lubricating oil additive, surfactant for fire extinguishers,cleaning agent, textile antifouling finishing agent, polishing surfactant, waterproofing agents and in liquid crystal display panels
166	Benzo[def]chrysene (Benzo[a]pyrene)					0	Formulation / end use of adhesives, paints, waterproof materia
167	4,4'-isopropylidenediphenol (bisphenol A:BPA)				1	0	Antioxidant for processing PVC, epoxy resin hardeners, manufacture of polycarbonate, thermal paper
	4-heptylphenol, branched and linear					0	Lubricant additives
169	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts					0	Plasticizers, lubricants, surfactants, wetting agents, preservatives
	p-(1,1-dimethylpropyl)phenol					0	Adhesive, paints, varnishes
	Perfluorohexane-1-sulphonic acid and its salts chrysene					0	Plasticizer, lubricant, surfactant, corrosion inhibitor  Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.
173	benz[a]anthracene					0	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.
174	cadmium nitrate			2	S1	0	Used for the manufacture of glass, porcelain and ceramic products and in laboratory chemicals.
175	cadmium hydroxide			2	S1	0	Used for the manufacture of electrical, electronic and optical equipment and in laboratory chemicals.
176	cadmium carbonate			2	S1	0	Used as a pH regulator and in water treatment products, laboratory chemicals, cosmetics and personal care products.
	1,6,7,8,9,14,15,16,17,17,18,18Dodecachlorope ntacyclo[12.2.1.1.0.0]octadeca-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]					0	Used as a non-plasticising flame retardant, used in adhesives and sealants and in binding agents.
178	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear					0	Used as a lubricant additive in lubricants and greases.
179	Octamethylcyclotetrasiloxane (D4)					0	Used in washing and cleaning products, polishes and waxes and cosmetics and personal care products.
180	Decamethylcyclopentasiloxane (D5)					0	Used in washing and cleaning products, polishes and waxes, cosmetics and personal care products, textile treatment products and dyes.
181	Dodecamethylcyclohexasiloxane (D6)					0	Used in washing and cleaning products, polishes and waxes, cosmetics and personal care products.
182	Lead				1	0	Used in metals, welding and soldering products, metal surface treatment products, and polymers.

(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
  - 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)	]
	ntaining Avoidance Substances	Occupational Safety and Health Law	Cnemical Substance Examination Law	Special Chemical Substance Regulation	PRTR Law	EU Directives	End Use Applications
	•	~					Used in anti-freeze products, heat transfer fluids, lubricants and
183	Disodium octaborate					0	greases, and washing and cleaning products.
184	Benzo[ghi]perylene					0	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.
185	Terphenyl hydrogenated				1	0	Used as a plastic additive, solvent, in coatings/inks, in adhesives and sealants, and heat transfer fluids.
186	Ethylenediamine (EDA)				1	0	Used in adhesives and sealants, coating products, fillers, putties, plasters, modelling clay, pH regulators and water treatment products.
187	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)					0	Used in the manufacture of esters and polymers.
188	Dicyclohexyl phthalate (DCHP)				2	0	Used in plastisol, PVC, rubber and plastic articles. A further use is also as a phlegmatiser and dispersing agent for formulations of organic peroxides.
189	2,2-bis(4'-hydroxyphenyl)-4-methylpentane					0	Surface coatings, inks, adhesives
190	Benzo[k]fluoranthene					0	Adhesives, cleaning agents
191	Fluoranthene					0	Adhesives, cleaning agents
192	Phenanthrene					0	Paints, release agents, lubricants, cleaning agents
193	Pyrene					0	Release agents, cleaning agents
194	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one					0	Sunscreens, cosmetics, UV-protective textiles
195	2-methoxyethyl acetate				1	0	Paints, solvent for adhesive, solvent for printing ink
196	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)					0	Primarily used as an antioxidant to stabilise polymers.
197	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)					0	Processing aid in the production of fluorinated polymers.
198	4-tert-butylphenol				1	0	Used in coating products, polymers, adhesives, sealants and for the synthesis of other substances.

- (A) Occupational Safety and Health Law
  MP: Manufacture Prohibition Substances
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  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
- (D) PRTR Law
- Classification 1-Designated Chemical Substances
   S1: Special Classification1-Designated Chemical Substances
   Classification 2-Designated Chemical Substances
   EU Directives
   C: Relevant to REACH Regulation or RoHS Directives

## **ENVIRONMENTAL CONTROL SYSTEM QUESTIONNAIRE**

Date	of preparation:				
Com	pany name:				
Nam	e of the place of business:				
	•				
-	artment:				
Nam	e and title of the person wh	o completes this format:		(Signa	ature)
Cont	act: Phone:	Fax:			
			heck "Yes"		
Inqu	iries about [Environmenta	al Control System] If not ap	plicable, en		
No.	Item	Question	Yes	Answe No	Remarks
1	Certification of	Have you obtained certification under ISO-14001 or other	163	NO	Nemaiks
·	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?			
4	Action plan	Do you have an action plan to achieve the goals?			
5	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			
0.0		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			
0.0		Annex 1 (page 5)?)			
8.3		(3) Do you have a system to control energy consumption?			
8.4 8.5		(4) Do you take actions to reduce wastes?			
6.5		(5) Do you take actions to control and reduce chemical			
8.6		substances? (6) Do you introduce or try a product assessment			
0.0		scheme?			
8.7		(7) Do you have a system to collect and recycle used			
0.7		products and packaging materials?			
9	Information disclosure *1	Do you disclose information about environmental issues?			
	imermation disclosure .	(For example, by Internet, environmental pamphlet, report,			
		etc.)			
10	Biodiversity *2	Are you actively involved in (or support) biodiversity			
	,	conservation movement?			
*1:	=	formation disclosure column, and have an Internet home page, sh environmental literature, please attach to this sheet.	please ent	er your U	RL in
		·•			
*2:	"10. Biodiversity" is not	the subject for a survey of environmental management s	ystem,		

-30-

but we ask you how your organization is working on this issue.

[Ver.10]

## PRODUCTION GOODS PROCUREMENT QUESTIONNAIRE

Date	of preparation	on:				
Com	pany name:					
Nam	e of the place	e of business:				
Depa	rtment:					
Name	e and title of	the person who comple	etes this format:		(Sia	nature)
		·	·		(0.9	
Cont	act:	Phone:	Fax:			
Ī	tem name:		Model, Item No:	Weight (	g):	
-	-			eck "Yes" or		umn.
	ducts, Parts	, Packaging)]	î	icable, enter	Answei	<b>r</b>
No.		Item	Question	Yes	No	Remarks
1	Packaging materials	Containing of heavy metals	Does the packaging contain heavy metals, such as cadmium, sexiavalent chrome, mercury and lead?  If Yes, list them in Form 4 (page 33).			
2		Use of polyvinyl chloride	Do you use polyvinyl chloride in your exterior packaging and buffer materials (e.g., bags)?			
3		Resources saving (packaging material)	Do you take or consider measures to reduce excessive packaging or packaging volume? (Reduced packaging compared with similar products and parts)			
4	1	Indication of materials (packaging material)	Do you indicate materials used for plastic packaging materials?			
5	]	Reduction of foams	Do you minimize the use of styrene foam or replace foam with other materials?			
6.1	Products, parts, packaging	Use prohibition substances *1	Do you use prohibition substances in the manufacturing process of products and parts? (See Annex 2,page 5.) If Yes, list the substances in Form 3, page 32.			
6.2		Use avoidance substances *1	Do you use avoidance substances in the manufacturing process of products or parts? (See Annex 3,page 5.) If Yes, list the substances in Form 3, page 32.			
7.1	]	Containing prohibition substances	Do you use containing prohibition substances in products or parts? (See Annex 4, page 6)			
7.2	•	Containing avoidance substances	If Yes, list the substances in Form 4, page 33.  Do you use containing avoidance substances in products or parts? (See Annex 6,page 8 to 12.)			
7.3	•	Conditional containing	If Yes, list the substances in Form 4, page 33.  Do you use conditional containing prohibition substances in		<del> </del>	· ·····

Do you use conditional containing prohibition substances in

Note: Please check "Yes" even if exclusion clauses are included.

Do you indicate materials used for plastic products or parts?

Does the product comply with applicable laws, including the

miniaturize the product? (As compared with similar products) Do you intend to take the above-mentioned measures?

Do you take measures to reduce power consumption in both

Do you take into account the separability and degradability to

operation and standby modes? (As compared with similar products). Do you intend to take the above-mentioned

(Preferably, molded items weighing 25 grams or over.)

Do you use recycled resources or parts, or do you

products or parts? (See Annex 5, page 7). If Yes, list the substances in Form 4, page 33.

Recycling Law and Energy Saving Law?

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.)

ensure proper disposition of the product?

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

measures?

Conditional containing

prohibition substances

Indication of materials

Compliance with laws

(products, parts)

Resources saving

Energy saving

Disposition

8

9

10

11

12

**Products** 

- \*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 exemptions according to applications.

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Even if exemptions 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	e of preparation:									
Con	npany name:					_				
Nan	ne of the place of busin	ess:				-				
Dep	artment:					-				
Nan	ne and title of the perso	on who completes	this format:			- (Signature)				
Con	tact: Phone:				Fax:					
				_						
No.	Name of product or	Model or type	Chemi	cal substance	es being used	Abolition plan	n 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. 2021	Degreasing washing		
	I	1	1			I				

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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 busir	ness:						=		
Depa	rtment:							_		
Name	e and title of the perso	on who co	mpletes th	is format:				(S	ignature)	
Conta	act:	Phone:				Fax:				•
										•
No.	Name of product, part or		Weight (g)		hemical substa	nces being used	Content *2			Form and
	packaging materia	or type		Prohibition/		Name of chemical	(ppm)	addition/	Exemption s No.*4	purpose of
				Conditional/	CAS No.	substances		Impurities/	5 110. 4	containing
Ex.	IC	123-456	0.1	Avoidance *1 CCP	7439-92-1	Lead	40,000	Exemptions *3 Intentional		Lead wire
⊏X.		123-436	0.1	CCP	7439-92-1	Leau	40,000	intentional	-	soldered
										plating
Ex	Ceramic capacitor	ABC-123	0.7	ССР	1317-36-8	Lead (II) oxide	3,400	Exemption	7c-l	piaming .
	<u> </u>	<u> </u>	1							

Please specify Containing Prohibition (CP), Conditional Containing Prohibition (CCP), or Containing Avoidance (CAV), referring to pages 6 to 12.

#### \*2: Content :

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

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\*3:Intentional addition/ Impurities/ Exemptions

Enter as follows according to the reason.

- ·Intentional addition: [Intentional]
- $\cdot \text{Impurities or reaction-type residue: [Impurities]}$
- $\cdot \text{When exception of conditional containing prohibition applies: } \textbf{[Exemption]}$
- \*4: Enter the number of exemptions.

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

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