Revised: 31 May 2019

Environmental Protection Regulations

KURODA Precision Industries Group Green Procurement Standards

(Ver. 3.2)



KURODA PRECISION INDUSTRIES LTD.

Environmental, Health & Safety (EHS) Committee

Introduction

I wish to express my sincere gratitude for your continuous support.

In recent years, global environmental problems have been drawing public attention, and once again corporate social responsibility is being asked.

KURODA, as a precision equipment manufacturer, has created our fundamental principles and philosophy concerning environmental conservation with our eyes on the future, developing our business operation with an aim of global environmental conservation and of building a recycling society.

As a part of that effort, KURODA has started to work on the realization of environment-friendly products. The reduction of our products` environmental burden will take place at the following stages:

- (1) Production of components or equipment
- (2) Use of Kuroda's products by customers

As such, the reduction of the environmental burden of KURODA's products is an impossible task to achieve by our efforts alone; the cooperation of our business partners is indispensable. In asking for cooperation from our business partners, we have prepared these "Green Procurement Standards". In this regard, in addition to asking for an understanding of the outline of these standards, we also ask for cooperation between KURODA and our business partners to promote a management system for global environmental conservation.

KURODA PRECISION INDUSTRIES LTD.

Hiroshi Kuroda,

President

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Disclaimer: In preparing these standards, we referred to the "Green Procurement Standards" of various companies who have taken the lead in promoting green procurement activities.

1. Aim

KURODA Precision Industries Group including KURODA PRECISION INDUSTRIES LTD. and its affiliated companies (hereinafter called KURODA) provides customers with environment-friendly products by promoting green procurement. Through that activity, KURODA tries to conserve the global environment and help create a recycling society. These "Green Procurement Standards" are the guideline for the promotion of this activity.

2. Scope

These standards apply to the cases in which KURODA procures items for production from suppliers such as products, constituent parts, and/or materials which constitute "KURODA" brand products or products delivered to our OEM customers.

Also note that some items are subject to be added to these standards depending on customer's intentions, country or region individually.

3. Involvement in Green Procurement

- (1) In procuring items for production, such as products, constituent parts, and materials, KURODA has set requirements for "items" delivered to KURODA and "business activities" for our business partners from the following standpoints.
 - 1. Creation and management of an "environmental management system" by the business partner
 - 2. Results of continuous improvements in environmental performance (observance of laws, management of substances that have an environmental impact, etc.)
- (2) Kuroda hopefully asks that our business partners promote environmental management activities that fulfill KURODA requirements.
- (3) Business partners must supply KURODA with information on "self-evaluation of environmental management systems", "environmental impact substances in production process", and "environmental impact substances contained in products".
- (4) KURODA decides whether to procure or not based on the supplied information.
- (5) If the requirements are not satisfied, procurement may be suspended.

KURODA Precision Industries Group

The KURODA Precision Industries Group with its environmental protection activities is the general name for the following companies, which sell "KURODA" brand products.

KURODA PRECISION INDUSTRIES LTD.

KURODA International Co., Ltd.

For enquiries on the environmental activities of the KURODA Precision Industries Group

Environmental, Health & Safety (EHS) Committee Secretariat (in KURODA PRECISION INDUSTRIES LTD. Technology Administration Center)

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4. Green Procurement Requirements

4-1 Environmental Management System Requirements

(1) Configuring an Environmental Management System

The requirement of an Environmental Management System is not a demand for the creation of a new system for those business partners who have already created and are operating their own environmental management systems.

We ask that they make effective use of existing systems, including environmental management systems based on ISO Q 14001, for which approval is obtained from a third party.

- Configurations as part of a quality management system
- Configurations as part of other management systems
- Configurations as independent management systems
- (2) Observance of Laws

Observe all laws and regulations pertaining to the environment.

(3) Supplying Information

All the requested environment related information must be supplied to KURODA.

4-2 Product Requirements

- (1) Managing environmental impact substances used during development, manufacturing and sales

 Do not use the banned substances listed in "Appendix Table 1". Regarding the controlled substances,
 have an understanding of the current status of use and reduce usage voluntarily.
- (2) Managing environmental impact substances contained in products
 The banned substances listed in "Appendix Table 1" should not be contained in the products.

Note 4a: Environmental Management System Models

Environmental management system requirements are based on regulations in ISO Q 14001. It is recommended to obtain third party approval for the relevant standards, but that is not a condition of business.

Note 4b: Environmental Laws and Regulations

Environmental laws and regulations refer to laws, regulations, and agreements etc. stipulated about the activities of the organization including air, water, soil, natural resources, energy, people, and their interactions. Which laws and regulations to be specifically addressed in the environmental management system depends on the business partner's judgment.

Note 4c: Production Process

The production process in these standards refers to all processes from designing, developing, manufacturing (processing, assembling, packing, shipping, etc.), selling, etc. until the product is delivered to KURODA.

Note 4d: Appendix Table 1

"Appendix Table 1" was originally determined by KURODA based on the laws and regulations in Japan and other countries including the RoHS Directive. When related laws and regulations are changed / revised, we will also review "Appendix Table 1" appropriately.

5. Guidelines for Examining Environmental Impact Substances

(1) Example of Mechanisms for Investigating Environmental Impact Substances used in the Production Process

	List the chemicals used in the production process.
Listing	Put the name of chemicals' ingredient and CAS No. on the list. You can get Safety Data Sheets and refer to them.
Survey	Survey if the listed substances are relevant to the ones defined as 'the environmental impact substances in the production process' in Appendix Table 1.
Recording and evaluation of	If some of the listed substances are relevant to the ones specified as 'the environmental impact substances in the production process', record the type, purpose of use and quantity consumed.
survey results	Confirm if the listed substances are relevant to the banned or controlled substances specified as 'the environmental impact substances in the production process'
	Record the survey results and the evaluation results.
Recording of survey results and evaluation results	Submit the survey results and the evaluation results if KURODA requests.

(2) Example of Mechanisms for Investigating Environmental Impact Substances contained in Products

Listing	List the constituent parts and materials of products.
Listing	List the secondary materials and chemicals added in the production process.
	Request suppliers of listed constituent parts, materials and secondary materials to survey if they contain the environmental impact substances.
	The object of the survey shall include environmental impact substances specified as "the environmental impact substances contained in the product" in Appendix table 1.
Survey	If the supplier can not get the results, they should ask for the survey results from secondary suppliers on their own responsibility.
	To improve the reliability of the information from suppliers, request the creation and the maintenance of the system to control the environmental impact substances conforming to this standard.
	To confirm the reliability of the information, request analysis from a research organization.
Evaluation of survey results	Evaluate if the survey results meets this standard.
Evaluation and summary of items	Summarize the substances contained in each item supplied to KURODA based on the survey results and evaluate if it meets this standard.
	Record the survey results and evaluation results.
Recording of survey results and evaluation results	The record should contain the information needed by "a data entry support tool established by chemSHERPA ".
	Submit the survey results and evaluation results if KURODA requests.

6. KURODA Evaluations

6-1 Environmental Management System Evaluations

(1) Submission of self-evaluation

When KURODA considers initiating business with suppliers, we ask them to submit the self-evaluation of their approach to KURODA's requirements with "form 1e - Environmental Management System Survey Table" (Excel file).

If the production/manufacturing source of the final process differs depending on the product, please evaluate and submit for each location.

(2) Determination of business transactions

KURODA evaluates if the supplier can comply with '4-1 Environmental Management System Requirements' and '4-2 Product Requirements' based on the submitted results of the self-evaluation, and gives notice on the results. KURODA may ask suppliers for improvement if they do not comply with the requirements completely.

Prior to the determination, KURODA may visit suppliers for an interview survey to confirm the selfevaluation. (Visit survey)

(3) Renewal of determination

After initiating business with suppliers, KURODA will continue to ask for the results of the selfevaluation regularly (e.g. once a year). Based on the results, KURODA renews the determination.

6-2 Product Evaluations

- 6-2-1 Supplying Information Regarding Environmental Impact Substances
- (1) Examine the chemicals in the products, and supply KURODA with "form 2e Certificate of Nonuse of Banned Substances in Products". (Supply the "form 3e - Detailed statement on expected abolishment date of KURODA specified banned substances" if necessary.)
- (2) As KURODA considers the adoption of particular products, if necessary, KURODA asks suppliers to provide information on environmental impact substances contained in the products using a data entry support tools such as chemSHERPA or a form similar to that.
- (3) If the environmental impact substances contained in the products are changed due to changes in the design or production process, etc., it will be necessary to reevaluate the environmental impact substances contained in the product. Information regarding changes must be supplied promptly. (Change Control)
- 6-2-2 Determination of procurement

KURODA evaluates if the products comply with '4-2 Product Requirements'. Products that meet all conditions can be procured and products that do not meet all conditions cannot be procured.

Note 6a: Self-Evaluation Checkpoints
KURODA may insist that the following implementation items be checked.

Responsibility sharing and procedures for implementing the environmental management system
Top Management declarations
Objective and plan settings
Appointment of management representative and communication of procedures

Note 6b: Obtaining Data Entry Support Tools

Access the chemSHERPA website, and download the data entry support tool and operation

chemSHERPA website: https://chemsherpa.net/chemSHERPA/english/tool/

Note 6c: Role of "Mechanisms for Investigating Environmental Impact Substances contained in Products"

To be performed on each product based on the information supplied using the product evaluation and examination tools (preferably chemSHERPA or a similar format). The reliability of this information is assured by suitable configuration and operation of the "Mechanisms for Investigating Environmental Impact Substances contained in Products".

6-3 Other

6-3-1 If the Business Partner is a Manufacturer

If the business partner is a manufacturer, instruct the producers of materials and substituent parts, or the partnering machine-shops to implement environmental management activities conforming to these standards, and check if KURODA requirements have been satisfied.

6-3-2 If the Business Partner is a Trading Company

If the business partner is a trading company, notify producers from whom products are purchased for delivery to KURODA of these standards, and instruct them to implement environmental management activities based on these standards. Further, gather information on the status of satisfaction of these standards from the producers from whom purchases are made, and supply the information to KURODA.

6-3-3 Requests to Secondary Suppliers of Components and Materials Specified by KURODA If the business partner purchases components and materials specified by KURODA from secondary suppliers, even if KURODA does no business directly with the suppliers, it is requested that the suppliers implement the environmental management activities that conform to these standards.

6-3-4 Handling the Information Supplied

The supplied information shall be shared within KURODA, but not disclosed in any way outside the Group.

Legal Requirements Legal Obligations Legal Obligations Legal Obligations Environmental EMS (E: Environment) **Product Environmental Management System** Design and **Environmental** Development Requirements Requirements Green procurement Green procurement conformance Secondary Sppliers Product Asse Evaluate beforehand t en vironmental load of products at their KURODA Acquire information (Q&A responses) Customers Publishing information (Q&A responses) de velopment stage, and ouild reduction measure n to the product. Conformance to e n vironmental Products that assur **Production Process** re quirements conformance to environmental Materials and development) re quirements **Products** Prevent dirtying and contamination Nonuse of banned substances Quality QMS (Q: Quality +C: Cost+D: Delivery) Suppliers

Product Environmental Management System Outline

Note 6d: Product Environmental Management System

This is the status that should be adopted to satisfy KURODA environmental requirements. There are both quality and environmental management systems, and the system creates products that assure conformance to the environmental requirements by implementing both systems together.

Attachment 1e(Ver.2)-1

Environmental n	nanagement syst	em survey table (1/2)	KURODA Pi	ecision Industries Group

KURODA Business Partner Code	Submission date
Company name (contact name)	
Representative's title and name	
TEL	
E-mail	

Name of the manufacturer, factory and	Preparing date
office implementing the investigation	
Representative's title and name	
TEL	
E-mail	
Preparer's name and title	
TEL	
E-mail	

 $\ensuremath{\mathbb{X}}$ Please write down the corresponding number and the necessary information.

1. Management system

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ISO 9001 has been acquired. Certification organizations: Date of acquisition Preparing for the acquisition 3. Planning to but not starting Expected date of acquisition	7	Planning to publish		Expected date	
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2. Preparing for the acquisition 3. Planning to but not starting Expected date of acquisition		ISO 9001 has been acquired.		Certification organizations:	
2. Preparing for the acquisition 3. Planning to but not starting Expected date of acquisition					
2. Preparing for the acquisition 3. Planning to but not starting Expected date of acquisition		1. Acquired		Date of acquisition	
3. Planning to but not starting Expected date of acquisition	8	•			
4. Not planing		1		Expected date of acquisition	
		1		•	

Environmental management system survey table (2/2)

KURODA Precision Industries Group

2. Corporate Social Responsibility

Nº	Evaluation standards		Action		
1.412			Expected date of acquisition	internal use	
	Compliance program or its related rules have been set.				
4	1. Rules were set.	annaman			
'	2. Preparing to set the rules		Expected date		
	3. Not planing				
	Measures to comply with laws and regulations have been taken				
2	Measures have been taken	annananan			
2	Preparing to take measures		Expected date		
	3. Not planing	www			
	You have a section of complaint handling.				
3	The section has been instituted.				
3	Preparing to institute the section		Expected date		
	3. Not planing				

3. Efforts for the products

Nº	Evaluation standards		KURODA's	
IVI≌	Evaluation standards	Selection No.	Expected date of acquisition	internal use
	Regarding the controlled substances at the manufacturing process			
	1. We do not use		Expected date	
1	2. Now we are using but are due to stop using	***************************************		
	3. We are using.		Controlled substance :	
	4. We do not have plan to stop using			
	Regarding banned substances		Expected date	
	1. We do not use			
	2. Now we are using but are due to stop using		Abolished substance :	
2	3. Under investigation	***************************************	Expected date	
	4. We do not have plan to stop using		Substance continuing to use :	
	Regarding the energy saving action			
3	We are implementing			
3	Planning to implement		Expected date	
	3. Not planing			
	Regarding the reduction of waste material			
4	We are implementing			
	Planning to implement		Expected date	
	3. Not planing			
	Regarding the development of environment-conscious product			
5	We are implementing	www.		
	Planning to implement		Expected date	
	3. Not planing			
	Regarding the reduction of the packing materials	***************************************		
6	We are implementing			
	Planning to implement		Expected date	
	3. Not planing			
	Regarding the improved transportation	·	Actual Example :	
7	We are implementing	***************************************	900000000000000000000000000000000000000	
	Planning to implement	***************************************	Expected date	
	3. Not planing			

* Please write down about yo	ur environmental actions	other than the above items.
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Date:

Certificate of Nonuse of Banned Substances in Products

Our company declares that Banned Substances described in the latest version of the "Appendix Table1 of KURODA Precision Industries Group Green Procurement Standards" are not contained (excluding RoHS Exemption) in the materials, components, and products currently delivered to the KURODA Precision Industries Group, nor will be contained in the future.

Address:	
Company Name:	
• •	ion:
Title and Job Descript	ion
Name:	
Note: Attachments (Y / N)
`	ct whose abolishment of the Banned Substances is delayed, fill in the "Attachment 3e:
• •	n expected abolishment date of KURODA specified banned substances" (Excel file) and
submit it to KURODA	
	omments if there are any special issues, such as being RoHS Exemption.
110102.110000 01101 111 1110 0	offinitions in those are any openiar located, each as somig from a Exemption.
analysis method, etc.)	ation timing of the analysis [in principle within the past two years],
Contact Name	
Job Title	
Phone	
E-mail	
Kuroda use only	

Detailed statement on expected abolishment date of KURODA specified banned substances

	Detailed statement on expected aboliciment date of restory opening ballings dubotations						
Item code	Product name and type	Containing the banned substances or not	Contained substances	When the containing will be abolished	Parts name containing the banned substances	Supplier	Manufacturer
			***************************************		***************************************	***************************************	***************************************
		•			300000000000000000000000000000000000000		
			***************************************		***************************************		
		•				•	
***************************************		•				<u></u>	
		•	***************************************			•	***************************************
		***************************************					***************************************
			***************************************	***************************************		••••••••••••••••••••••••••••••	***************************************
		***************************************	***************************************	***************************************	000000000000000000000000000000000000000	***************************************	MCCOMCCOMCCOMCCOMCCOMCCOMCCOMCCOMCCOMCC
<u> </u>							

1. Banned Substances

Copared to v3.2 Additions are in red

Corrections are in blue

	·		
(1) R	oHS Directive 2011/65/EU(6 substances) a	nd (EU)2015/863(4 substanc	es) [Product]
No.	Substances	Threshold	
INO.	Substances	RoHS	ELV
1	Lead (Pb)	1000 ppm	1000 ppm
2	Mercury (Hg)	1000 ppm	1000 ppm
3	cadmium (Cd)	100 ppm	100 ppm
4	Hexavalent chromium (Cr ⁶⁺)	1000 ppm	1000 ppm
5	Polybrominated biphenyl (PBBs)	1000 ppm	-
6	Polybrominated diphenyl ether (PBDEs)	1000 ppm	-
7	Di-2-ethylhexyl phthalate (DEHP)	1000 ppm	-
8	Butyl benzyl phthalate (BBP)	1000 ppm	-
9	Di-n-butyl phthalate (DBP)	1000 ppm	-

1000 ppm

(2) Substances destructive to Ozone Layer

10 Diisobutyl phthalate (DIBP)

[Process]

No.	Substances
1	CFC
2	Halon
3	Carbon tetrachloride
4	1,1,1-Trichloroethane
5	HCFC
6	HBFC
7	Methyl bromide
8	Bromochloromethane

(3) Pollutant for Atmosphere

[Process]

No.	Substances
1	Asbestos

(4) Substances under the Chemical Substances Control Law in Japan

[Process]

No.	Substances
INO.	http://www.safe.nite.go.jp/jcheck/list6.action?category=211&request_locale=en
1	Polychlorinated biphenyls (PCB)
2	Polychlorinated naphthalenes (only those containing 2 or more chlorine atoms in the molecule)
3	Hexachlorobenzene
4	Aldrin
5	Dieldrin
6	Endrin
7	DDT
8	Chlordane
9	Bis(tributyltin)oxide
10	N, N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine, or N, N'-dixylyl-p-
11	2, 4, 6-tri-tert-butylphenol
12	Toxaphene
13	Mirex
	Kelthane
	Hexachlorobuta-1, 3-diene
	2-(2H-1, 2, 3-benzotriazol-2-yl)-4, 6-di-tert-butylphenol
	PFOS or its salts
18	PFOSF
	Pentachlorobenzene
	α-hexachlorocyclohexane
21	β-hexachlorocyclohexane

(4) Substances under the Chemical Substances Control Law in Japan [Process] Substances γ-hexachlorocyclohexane 23 Chlordecone Hexabromobiphenyl Tetrabromodiphenyl ether pentabromodiphenyl ether Hexabromodiphenyl ether Heptabromodiphenyl ether Endosulfan Hexabromocyclododecane 30 Pentachlorophenol, its salts or esters 31 Polychlorinated normal paraffin (It is limited that the number of carbon is 10 to 13 and the content 32 of chlorine is more than 48% of the total weight.) Decabromodiphenyl ether 33

(5) H	azardous substances under the Industrial Safety and Health Act in Japan [Process	s]
No.	Substances	1
1	Yellow phosphorus match]
2	Benzidine and its salts]
3	4-Aminobiphenyl and its salts]
4	Asbestos]
5	4-Nitrobiphenyl and its salts]
6	Bis(chloromethyl)ether	1
7	β-Naphthylamine and its salts	1
8	Gum containing benzene, in which the volume of contained benzene exceeds 5 % of the solvent	
	(including diluents) of the said gum	

(6) EU Commission, International Maritime Association, Stockholm Convention, EU POPs, US TSCA

[Product]

		[Ploduct	
No.	Substances (Group)	Target or Application	
1	Asbestos	Electrical insulators, fillers, gaskets	
2	Azo dyes and pigments	Wire stripper colorants and color fixers	
3	Substances destructive to Ozone Layer	Coolants	
4	Polychlorinated biphenyls (PCB)	Insulating oils, lubricants, fire-resistant chemicals	
5	Polychlorinated naphthalenes	Lubricants, paints, resin stabilizers, fire-resistant chemicals	
6	Radioactive materials	Packaging and wrapping materials	
7	Short-chain chlorinated paraffin	Fire-resistant chemicals and plastics	
8	Tributyltins (TBTs). triphenyltins (TPTs)	Stabilizers, anti-oxidants, and anti-aging chemicals	
9	Bis (tributyltins)= oxides	Paints and colorants	
40	Perfluoro(octane-1-sulfonic acid)	Surface protection products such as carpet and	
10	(Synonym: PFOS) or its salts	clothing treatments, coating for paper and cardboard	
11	Dimethyl fumarate (DMF)	Dermatological agents for treatment of psoriasis and skin diseases	
12	2- (2H-1,2,3-benzotriazol-2-yl) -4,6-di-tert- butylphenol	Additives for fibers, additives for resins	
13	Dibutyltin compound (DBT) and dioctyltin compound (DOT)	Catalyst in the polymerization of polylactide plastics	
14	Formaldehyde	Antiseptic, disinfectant, histologic fixative	
15	Hexachlorobenzene	Fungicide	
16	PFOA, its salts and PFOA-related substances	Surfactants, coating agents, water and oil repellents	
17	Decabromodiphenyl ether (DecaBDE)	Plastic enclosures, wire and cables	
18	Phenol, isopropylated phosphate (PIP (3:1))	Lubricants, greases, adhesives, sealants, hydraulic fluids	
19	2, 4, 6-Tris(tert-butyl)phenol (2, 4, 6-TTBP)	Antioxidant for fuel, oil, gasoline or lubricant	
20	Pentachlorothiophenol (PCTP)	Peptizer for synthetic and natural rubbers	
21	Hexachlorobutadiene (HCBD)	Solvent	

	REACH SVHC until 24 th (211 substances) confirmed in Jan 2021 [Process] [Product
No. 1	Substances Triethyl arsenate
2	Anthracene
3	4,4'- Diaminodiphenylmethane (MDA)
4	Dibutyl phthalate (DBP)
5	Cobalt dichloride
6	Diarsenic pentaoxide
7	Diarsenic trioxide
8	Sodium dichromate
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)
10	Bis (2-ethylhexyl)phthalate (DEHP)
11	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: (Alpha-,Beta-,Gamma-)
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)
13	Bis(tributyltin)oxide (TBTO)
14	Lead hydrogen arsenate
15	Benzyl butyl phthalate (BBP)
16	Anthracene oil
17	Anthracene oil, anthracene paste, distn.lights
18	Anthracene oil, anthracene paste, anthracene fraction
19	Anthracene oil, anthracene-low
20	Anthracene oil, anthracene paste
21	Coal tar pitch, high temperature
22	2,4-Dinitrotoluene
23	Diisobutyl phthalate
24	Lead chromate
25	Lead chromate molybdate sulphate red (C.I Pigment Red 104)
26	Lead sulfochromate yellow (C.I Pigment Yellow 34)
27	Tris(2-chloroethyl)phosphate
28	Acrylamide
29	Trichloroethylene
30	Boric acid
31	Disodium tetraborate, anhydrous
32	Tetraboron disodium heptaoxide, hydrate

(7)-1	REACH SVHC until 24 th (211 substances) confirmed in Jan 2021 [Process] [Product
No.	Substances
33	Sodium chromate
34	Potassium chromate
35	Ammonium dichromate
36	Potassium dichromate
37	Cobalt(II) sulphate
38	Cobalt(II) dinitrate
39	Cobalt(II) carbonate
40	Cobalt(II) diacetate
41	2-Methoxyethanol
42	2-ethoxyethanol
43	Chromium trioxide
	Acids generated from chromium trioxide and their oligomers
44	Chromic acid
	Dichromic acid
	Oligimers of chromic acid and dichromic acid
45	2-ethoxyethyl acetate
46	Strontium chromate
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)
48	Hydrazine
49	1-methyl-2-pyrrolidone
50	1,2,3-trichloropropane
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)
52	Dichromium tris(chromate)
53	Potassium hydroxyoctaoxodizincatedi-chromate
54	Pentazinc chromate octahydroxide
55	Aluminosilicate Refractory Ceramic Fibres (RCF)
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)
58	Bis(2-methoxyethyl) phthalate
59	2-Methoxyaniline; o-Anisidine

[Process] [Product] Substances No. 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) 60 1,2-Dichloroethane 61 Bis(2-methoxyethyl) ether 62 Arsenic acid 63 Calcium arsenate Trilead diarsenate 65 66 N,N-dimethylacetamide [DMAC] 2,2'-dichloro-4,4'-methylenedianiline [MOCA] 67 Phenolphthalein 68 Lead azide, Lead diazide 69 Lead styphnate 70 Lead dipicrate 71 72 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium 75 chloride (C.I. Basic Violet 3) α, α -bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol 76 (C.I. Solvent Blue 4) 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol 77 (C.I. Solvent Violet 8) Diboron trioxide, boric oxide 78 79 Formamide Lead(II) bis(methanesulfonate) 80 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's Base)

[Process] [Product] No. Substances 4,4'-bis(dimethylamino)benzophenone (Michler's Ketone) 82 **TGIC** 83 (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) **β-TGIC** 84 (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) 85 Pyrochlore, antimony lead yellow 86 6-methoxy-m-toluidine (p-cresidine) 87 Henicosafluoroundecanoic acid Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride 88 Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride Cyclohexane-1,2-dicarboxylic anhydride cis-cyclohexane-1,2-dicarboxylic anhydride trans-cyclohexane-1,2-dicarboxylic anhydride Dibutyltin dichloride (DBTC) 90 91 Lead bis(tetrafluoroborate) 92 Lead dinitrate 93 Silicic acid, lead salt 4-Aminoazobenzene 94 Lead titanium zirconium oxide 95 Lead monoxide (lead oxide) 96 o-Toluidine 97 98 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine Silicic acid, barium salt, lead-doped 99 Trilead bis(carbonate)dihydroxide 100 Furan 101

[Process] [Product] Substances No. 102 N,N-dimethylformamide 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a 104 carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and welldefined substances which include any of the individual isomers or a combination thereof] 105 4,4'-methylenedi-o-toluidine 106 Diethyl sulphate 107 Dimethyl sulphate 108 Lead oxide sulfate 109 Lead titanium trioxide 110 Acetic acid, lead salt, basic 111 [Phthalato(2-)]dioxotrilead 112 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) 113 N-methylacetamide 114 Dinoseb (6-sec-butyl-2,4-dinitrophenol) 115 1,2-Diethoxyethane 116 Tetralead trioxide sulphate 117 N-pentyl-isopentylphthalate 118 Dioxobis(stearato)trilead 119 Tetraethyllead 120 Pentalead tetraoxide sulphate Pentacosafluorotridecanoic acid 121 Tricosafluorododecanoic acid 122 123 Heptacosafluorotetradecanoic acid 124 1-bromopropane (n-propyl bromide) 125 Methoxyacetic acid 126 4-methyl-m-phenylenediamine (toluene-2,4-diamine) Methyloxirane (Propylene oxide) 127 Trilead dioxide phosphonate 128 o-aminoazotoluene 129

	REACH SVHC until 24 th (211 substances) confirmed in Jan 2021 [Process] [Product]
No.	Substances
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear
131	4,4'-oxydianiline and its salts
132	Orange lead (lead tetroxide)
133	Biphenyl-4-ylamine
134	Diisopentylphthalate
135	Fatty acids, C16-18, lead salts
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))
137	Sulfurous acid, lead salt, dibasic
138	Lead cyanamidate
139	Cadmium
140	Ammonium pentadecafluorooctanoate (APFO)
141	Pentadecafluorooctanoic acid (PFOA)
142	Dipentyl phthalate (DPP)
143	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 thereof]
144	Cadmium oxide
145	Cadmium sulphide
146	Disodium 3.3'-[(1.1'-biphenyl]-4.4'-diylbis(azo)]bis(4-aminonaphthalane-1-sulpjpnate) (CI Direct Red 28)
147	Disodium 4-amino-3-{[4'-[(2.4-diaminophenyl)azo]}[1.1'biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalane-2.7-disulphonate (CI Direct Black 38)
148	Dihexyl phthalate
149	Imidazolidine -2-thione ; 2-imidazoline-2-thiol
150	Lead di(acetate)
151	Trixylyl phosphate
152	Cadmium chloride

(7)-1 No.	REACH SVHC until 24 th (211 substances) confirmed in Jan 2021 [Process] [Product] Substances
	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear
154	Sodium peroxometaborate
155	Sodium perborate; perboric acid, sodium salt
156	Cadmium fluoride
157	Cadmium sulphate
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)
161	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)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyldiesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)
163	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 stereoisomers of [1] and [2] or any combination thereof]
164	Nitrobenzene
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(UV-327)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)
167	1,3-propanesultone

[Process] [Product] No. Substances Perfluorononan-1-oic acid 168 (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium 169 Benzo[def]chrysene (Benzo[a]pyrene) 170 4,4'-isopropylidenediphenol (bisphenol A; BPA) Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts 172 p-(1,1-dimethylpropyl)phenol 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCBand well-defined substances which include any of the individual isomers or a combination thereof] 174 Perfluorohexane-1-sulphonic acid and its salts 175 Chrysene 176 Benz[a]anthracene 177 Cadmium nitrate 178 Cadmium hydroxide 179 Cadmium carbonate 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-180 7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereofl Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, 181 branched and linear (RP-HP) [with ?0.1% w/w 4-heptylphenol, branched and linear 182 Octamethylcyclotetrasiloxane (D4) Decamethylcyclopentasiloxane (D5) 183 184 Dodecamethylcyclohexasiloxane (D6)

(7)-1 REACH SVHC until 24 th (211 substances) confirmed in Jan 2021 [Process] [Product] No. Substances 185 Lead 186 Disodium octaborate 187 Benzo[ghi]perylene 188 Terphenyl hydrogenated 189 Ethylenediamine (EDA) 190 Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA) 191 Dicyclohexyl phthalate (DCHP) 192 2,2-bis(4'-hydroxyphenyl)-4-methylpentane 193 Benzo[k]fluoranthene 194 Fluoranthene 195 Phenanthrene 196 Pyrene 197 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥0.1% w/w of 4-198 nonylphenol, branched and linear (4-NP) 199 4-tert-butylphenol 200 2-methoxyethyl acetate 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any 201 of their individual isomers and combinations thereof 202 Perfluorobutane sulfonic acid(PFBS) and its salts 203 Diisohexyl phthalate 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one 204 205 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone 206 Dibutylbis(pentane-2,4-dionato-O,O')tin 207 Butyl 4-hydroxybenzoate 208 2-methylimidazole 209 1-vinylimidazole 210 bis(2-(2-methoxyethoxy)ethyl) ether Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, 211 bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety

(7)-2 REACH SVHC 25th (8 substances) confirmed in July 2021 [Process] [Product] No. Substances Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains 212 from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) Orthoboric acid, sodium salt 213 Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal 214 to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17] 215 Glutaral 216 4,4'-(1-methylpropylidene)bisphenol; (bisphenol B) 217 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers 2,2-bis(bromomethyl)propane1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative 218 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA) 1,4-dioxane

Note1:

All SVHC after the 26th to be added in the future will be subject to management. KURODA will not add them to this appendix each time.

For chemical substances to be added, please refer the following URL.

https://echa.europa.eu/candidate-list-table

Note2:

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market have to submit information on these articles to ECHA, as from 5 January 2021. If you confirm the content, please notify KURODA of it ASAP.

2. Controlled Substances

(1) Substances that control content status

[Product]

No.	Substances	Control Thresold
1	Antimony and its compounds	1,000ppm
2	Arsenic and its compounds	1,000ppm
3	Beryllium and its compounds	1,000ppm
	Bismuth and its compounds	1,000ppm
5	Brominated flame retardants (excluding PBBs and PBDEs)	1,000ppm
6	Nickel and its alloys	1,000ppm
7	Phthalate esters	1,000ppm
8	Selenium and its alloys	1,000ppm
9	Polyvinyl chloride (PVC)	1,000ppm

(2) Substances for which content is prohibited in packaging materials

[Product]

No.	Substances	Control Thresold
1 1	4 metals (cadmium, lead, mercury, hexavalent chromium) contained in	100 ppm in total of 4
'	packaging materials	metals