Green Procurement Guidelines

NAKANISHI INC.



CONTENTS

Introduction	2
Purpose and Scope of Application	2
Purpose of Green Procurement	
Scope of Green Procurement	
Requirements of Green Procurement	3
Reduction of environmental impact and management of chemical substances in delivered products	
Guidelines for managing information on chemical substances contained in products	
In the event of a change in the chemical substance content information	
Revision of Green Procurement	5
Contact Information	5

- Table 1: Prohibited Substances List
- Table 2: Prohibited substances / substances List
- Table 3: Prohibited Substances / Substances CAS Number List
- Table 4: Controlled Substances List (REACH-regulated and MDR substances and other substances)
- Table 5: Non-use Warranty

Introduction

NAKANISHI INC. (hereinafter referred to "NSK") promotes environmental activities based on our management policy of reducing the environmental impact of all our business activities, including research and development, manufacturing, sales, and service of ultra-high speed rotary equipment and realizing a healthy and prosperous society in harmony with nature.

NSK has established the Environmental Policy, and we are uniting our efforts to give consideration to the environment through all our products and activities in all business processes.

Based on this concept, we have clarified medium- to long-term targets and managed specific activity items and target values.

Among them, there is a wide range of issues that we must address, and we need to comprehensively assess the environmental impact of our products throughout their entire life cycle, from the "manufacturing" stage to the "use" stage, and then to the "reuse" and "return" stages as resources after the products have fulfilled their roles.

NSK promotes green procurement as one of our efforts at the "manufacturing" stage.

Green procurement refers to the procurement of products, parts, and materials with less environmental impact from suppliers who actively promote environmental conservation. In order to promote business activities that reduce the environmental impact and risks of hazardous chemical substances, it is necessary to carry out activities throughout the entire supply chain, and the cooperation of our business partners is essential.

We would like to ask our suppliers to understand and cooperate in green procurement for the creation of a sustainable society.

NAKANISHI INC.

Environmental Management System section, General Administration Department

Purpose and Scope of Application

Purpose of Green Procurement

As various environmental issues such as global warming, resource depletion, and the destruction of ecosystems become more serious, demands and expectations for companies to reduce their environmental impact are increasing.

NSK contributes to the realization of a sustainable society by promoting manufacturing with the aim of reducing the environmental impact of our products throughout their life cycles through all business activities, including research and development, manufacturing, sales, and service.

As part of these activities, green procurement aims to procure products and services that have less environmental impact from suppliers who are actively engaged in environmental conservation activities, taking into account the proper use of chemical substances, conservation of ecosystems, energy conservation, resource conservation, and ease of recycling, decomposition, and disposal.

Scope of Green Procurement

This applies to the following delivered products.

- · Products (finished and semi-finished products)
- · Parts (electrical/electronic parts, mechanical parts, others)
- · Materials (metals, resins, others)
- · Subsidiary materials (adhesive, silicon, paint, ink, solder, others)
- · Packaging materials, printed materials (trays, bags, cushioning materials, tapes, printing ink, others)
- · Instruction manual (The instruction manual that is shipped with the product)

Requirements of Green Procurement

In order to promote green procurement, NSK asks all of our suppliers to understand green procurement and cooperate with the following two things.

- · To actively engage in environmental conservation activities
- · To deliver products and materials with reduced environmental impact to NSK

Specifically, please check the following "Requests to suppliers" and "Reduction of environmental impact and management of chemical substances in delivered products".

Reduction of environmental impact and management of chemical substances in delivered products

Reduction of environmental impact

Regarding products delivered to NSK, please follow the items below to improve environmental performance. We would also like to ask our suppliers for the same consideration when procuring raw materials and parts.

- · Reduction of CO2 emissions
- · Reduction of industrial waste generation
- · Proper use of chemical substances
- · Provision of environmental information on products and materials

Information management of chemical substances

With the support of our suppliers, NSK delivers environmentally friendly products to society. We would like to ask our suppliers in the upper stream of the supply chain to cooperate in the survey. In consideration of customer requirements and laws and regulations related to medical devices, we divide the chemical substances to be controlled into two categories: "Prohibited Substances" and "Controlled Substances" to compile information on chemical substances contained in delivered products.

- · Prohibited Substances: See Table 1,2,3
- · Controlled Substances: See Table 4

In addition, we may ask our suppliers to understand and cooperate with the survey chemical substances used in the manufacturing, storage, and transportation phases until delivery, even if they are not finally contained in the delivered products.

Survey on chemical substance contained in products

NSK asks our suppliers for environmental considerations. Regarding chemical substances contained in products, we requires our supplier to guarantee the non-inclusion of chemical substances.

If non-inclusion of chemical substances in products is indicated as a condition of purchase specifications, we request our supplier to submit the "non-use warranty" in Table 5 and chemSHERPA (AI) sheet.

"Non-inclusion" refers to the case where it has been clarified by reasonable procedures that the chemical substance is not contained or is below a predetermined threshold value in the homogeneous material, regardless of "intentional addition" or "unintentional contamination of impurities".

a) Materials and data to be submitted

With regard to the formats for managing chemical substances contained in products, NSK is working to respond flexibly to the formats widely adopted by industry, with the first priority on the usability of our suppliers.

At present, we use the following formats as the basis for input.

<Survey format>

chemSHERPA (AI) sheet, non-use warranty

* chemSHERPA: This is the format for transferring information on chemical substances contained in products provided by JAMP.

chemSHERPA (AI) is a survey format that deals with chemical substances contained in articles.

* Information such as SDS (Safety Data Sheet) and parts mass may be requested as necessary.

b) Non-use warranty

For "Prohibited Substances" in Table 2, please submit "Non-use Warranty" in Table 5 (distributed at the time of request for investigation).

In addition, please submit "Non-use Warranty" in Table 5, including information that can identify the product, such as the product name and product number, to be reported.

Guidelines for managing information on chemical substances contained in products

As the use of "Prohibited Substances" is basically banned by laws and regulations in Japan and abroad, it is necessary to guarantee "non-inclusion" from the viewpoint of legal compliance.

Regarding "Controlled Substances", it is necessary to appropriately manage the content information regardless of whether or not the chemical substances are contained in products.

In the event of a change in the chemical substance content information

In the event of any new inclusion in the delivered products or any change in the reported contents of the delivered products for any reason, please contact us immediately.

Revision of Green Procurement Guidelines

These Guidelines may be revised as follows. In that case, we will promptly notify our suppliers by e-mail or in writing.

- · Change in laws, regulations, or customer requirements
- · For parts that have been reported once, our Purchasing Department will inform our suppliers of the content of each change in the event of any change in the "Prohibited Substances" or "Controlled Substances" due to the revision of the law.

Based on the content, please use the specified form to answer the status of inclusion.

Contact Information

NAKANISHI INC.

Environmental Management System section, General Administration Department TEL 0289-64-3380

Table-1 Prohibited substances List

■ EU RoHS Directive

Rev.13 (1/2 page)

No	Chemical substances	Reference material	CAS No	Threshold level	Main relevant regulations
1	Cadmium and its compounds	(See Appendix 2-1) (See Appendix 3-1)	-	100ppm or less	RoHS directive (EU)
2	Lead and its compounds	(See Appendix 2-2) (See Appendix 3-2)	-	1000ppm or less	RoHS directive (EU)
3	Mercury and its compounds	(See Appendix 2-3) (See Appendix 3-3)	-	1000ppm or less	RoHS directive (EU)
4	Hexavalent chromium compounds	(See Appendix 2-4) (See Appendix 3-4)	-	1000ppm or less	RoHS directive (EU)
5	Polybrominated biphenyls (PBBs)	(See Appendix 2-5) (See Appendix 3-5)	-	1000ppm or less	RoHS directive (EU)
6	Polybrominated diphenyl ethers (PBDEs)	(See Appendix 2-5) (See Appendix 3-5)	-	1000ppm or less	RoHS directive (EU)
7	Bis (2-ethylhexyl) phthalate	(See Appendix 2-6) (See Appendix 3-6)	117-81-7	1000ppm or less	RoHS directive (EU) (Except for non-electrical and electronic equipment)
8	Butyl benzyl phthalate	(See Appendix 2-6) (See Appendix 3-6)	85-68-7	1000ppm or less	RoHS directive (EU) (Except for non-electrical and electronic equipment)
9	Dibutyl phthalate	(See Appendix 2-6) (See Appendix 3-6)	84-74-2	1000ppm or less	RoHS directive (EU) (Except for non-electrical and electronic equipment)
10	Diisobutyl phthalate	(See Appendix 2-6) (See Appendix 3-6)	84-69-5	1000ppm or less	RoHS directive (EU) (Except for non-electrical and electronic equipment)

■RoHS exemption

The RoHS Directive stipulates "exempted uses" that permit the inclusion of prohibited substances for use that cannot be technically substituted.

The revised RoHS Directive (2011/65/EU: RoHS2) has two types of lists: AnnexIII and AnnexIV.

Please check the latest lists and strictly observe that prohibited substances do not contain more than the allowable amount.

■ Toxic Substances Control Act (TSCA) substances

No	化学物質名	参照	CAS No	含有濃度の閾値	参照法令
11	Phenol, isopropylated phosphate (3:1) - PIP / PIP (3:1)	(See Appendix 2-7) (See Appendix 3-7)	68937-41-7	Prohibition of use	「Toxic Substances Control Act (TSCA)」
12	DecaBDE – decabromodiphenyl ether / DBDE	(See Appendix 2-5) (See Appendix 3-5)	1163-19-5	Prohibition of use	「Toxic Substances Control Act (TSCA)」 RoHS directive (EU) 「Japan Chemical Examination Law/Type 1 specified chemical substances」
13	Hexachlorobutadiene / HCBD	(See Appendix 2-8) (See Appendix 3-8)	87-68-3	Prohibition of use	「Toxic Substances Control Act (TSCA)」 「Japan Chemical Examination Law/Type 1 specified chemical substances」
14	Pentachlorothiophenol / PCTP	(See Appendix 2-9) (See Appendix 3-9)	133-49-3	10000ppm or less	[Toxic Substances Control Act (TSCA)]
15	2,4,6-TTBP – 2,4,6-tris (tert- butyl) phenol / TTBP	(See Appendix 2-10) (See Appendix 3-10)	732-26-3	3000ppm or less	[Toxic Substances Control Act (TSCA)] [Japan Chemical Examination Law/Type 1 specified chemical substances]

■ U. S. TSCA exclusions and exemptions

U.S Toxic Substances Control Act (TSCA) defines "Exclusions" that allow the activities of manufacture, import, export, process and commertially distribute products/molded products containing such PBT chemicals under certain conditions. If you would like to get the advantage of such exclusions, you should make sure that your products are out of the prohibited scope by referring to Section 6 of TSCA, requirements for specific chemical substances and mixtures.

Rev.13 (2/2 page)

No	Chemical substances	Chemical substances	CAS No	Threshold level	Rev.13 (2/2 page) Main relevant regulations
				[Intentional use is prohibited,	
16	Asbestos	(See Appendix 2-7) (See Appendix 3-7)	-	however,1000ppm or less as	FREACH regulation Annex XV II(EU)」
17	Tributyl Tin (TBT) and Triphenyl Tin (TPT)	(See Appendix 2-8) (See Appendix 3-8)	-	Fintentional use is prohibited, however,1000ppm or less as tin]	「Japan Chemical Examination Law/Type 1 specified chemical substances」 「REACH regulation Annex XVⅡ (EU)」
18	Dibutyltin (DBT) compounds Dioctyltin (DOT) compounds	(See Appendix 2-9 and 2-10) (See Appendix 3-9 and 3-10)	-	「1000ppm or less as tin」	「REACH regulation Annex XV II(EU)」
19	Bis(tributyltin)oxide (TBTO)	(See Appendix 2-11) (See Appendix 3-11)	56-35-9	「Intentional use is prohibited」	「Japan Chemical Examination Law/Type 1 specified chemical substances」 「REACH regulation Annex XVII(EU)」
20	Deca-BDE	(See Appendix 2-5) (See Appendix 3-5)	1163-19-5	Intentional use is prohibited	「REACH regulation Annex XV II(EU)」
21	Polychlorinated Biphenyls (PCBs)	(See Appendix 2-12) (See Appendix 3-12)	-	「Intentional use is prohibited」	Flapan Chemical Examination Law/Type 1 specified chemical substances FREACH regulation Annex XV II (EU) FPERSISTENT OF STATE OF STAT
22	Polychlorinated Terphenyls(PCTs)	(See Appendix 2-13) (See Appendix 3-13)	61788-33-8	ΓIntentional use is prohibited, however,50ppm or less as tin∫	「REACH regulation Annex XV II(EU)」
23	Polychlorinated naphthalenes (more than 2 chlorine atoms)	(See Appendix 2-14) (See Appendix 3-14)	-	「Intentional use is prohibited」	「Japan Chemical Examination Law/Type 1 specified chemical substances」 「Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021」
24	Alkanes, C10-13, chloro	(See Appendix 2-15) (See Appendix 3-15)	-	Fintentional use is prohibited, however,1000ppm or less as tin∫	「Japan Chemical Examination Law/Type 1 specified chemical substances」 「REACH regulation Annex XV II(EU)」 「Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021」
25	Azocolourants and azodyes which form certain aromatic amines	(See Appendix 2-16) (See Appendix 3-16)	-	Γ30ppm or less as textile / leather products]	「REACH regulation Annex XV II(EU)」
26	Ozone Depleting Substances	(See Appendix 2-17) (See Appendix 3-17)	-	「Intentional use is prohibited」	「Law concerning the Protection of the Ozone Layer」 「Montreal Protocol on Substances that Deplete the Ozone Layer」
27	Perfluorooctane sulfonates.	(See Appendix 2-18) (See Appendix 3-18)	-	Fintentional use is prohibited, however,1000ppm or less as tin.	[Japan Chemical Examination Law/Type 1 specified chemical substances] [Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021]
28	Perfluorooctanoic acid	(See Appendix 2-19) (See Appendix 3-19)	-	「Intentional use is prohibited, however.1ppm or less as tin∫	「Japan Chemical Examination Law/Type 1 specified chemical substances」 「REACH regulation Annex XV II(EU)」 「Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021」
29	Fluorinated greenhouse gases (PFC, SF6, HFC)	(See Appendix 2-20) (See Appendix 3-20)	-	「Intentional use is prohibited」	[EU regulation No 517/2014]
30	Hexachlorobenzene (HCB)	(See Appendix 2-21) (See Appendix 3-21)	-	「Intentional use is prohibited」	[Japan Chemical Examination Law/Type 1 specified chemical substances] [REACH regulation (EU)] [Regulation on Classification, Labelling and Packaging of substances and ixtures] [Persistent Organic Pollutants (POPs) Regulation (EC) No.2019/1021]
31	Redioactive substances	(See Appendix 2-22)	-	「Intentional use is prohibited」	Law Concerning Prevention from Radiation Hazards due to Radio- Isotopes, etc.] 「Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors」 「Directive 2013/59/Euratom」
32	Specified benzotriazole	(See Appendix 2-23) (See Appendix 3-22)	3846-71-7	「Intentional use is prohibited」	「Japan Chemical Examination Law/Type 1 specified chemical substances」
33	Dimethyl fumarate (DMF)	(See Appendix 2-24) (See Appendix 3-23)	624-49-7	「0.1ppm or less as tin」	「REACH regulation Annex XV II(EU)」
34	Formaldehyde	(See Appendix 2-25) (See Appendix 3-24)	50-00-0	[75ppm of textile]	[BGB 1990/194: Formaldehyde Restriction § 2, 12/2/1990]

Table-2 Prohibited substances / substances List

■ EU RoHS Directive

<u>Table 2- 1</u> Rev.13 (1/5 page)

Substance/Substance Group Name: Cadmium and its compounds

Regulated items

All applications except those in the exemptions shown below. (See Table 2-26 for packaging material)

[Applications and use examples]

Stabilizer/pigment/dye/paint/ink used for plastics (including rubber, film), phosphor, alloy, packsging materials, etc

Exemption - Uses in batteries as materials for batteries *1*2 (under the EU Battery Directive)

- *1: Batteries:primary batteries, accumulators (secondary batteries), and battery packs.
- *2: Check the individual law or regulation, and take actions if necessary.

Table 2-2

Substance/Substance Group Name: Lead and its compounds

Regulated items*1

All applications excepy those in the exemptions shown below. (See Table 2-26 for packaging material)

[Applications and use examples]

Paint, pigment, dye, inc, stabilizer in plastic (including rubber) material

Solder coating on snd packaging material of component external slsctrode, lead terminal, etc

Exemption - Uses in batteries *2*3 (under the EU Battery Directive)

- *1: For products destined for in North America subject to the California Proposition 65 Settlement Agreement dated September 3,2002,if lead is intentionally added to the surface material covering the cord, or its lead content exceeds 300ppm (0.03%), a warning label is required.
- *2: Batteries: primary battery, accumulators (secondary batteries), and battery packs.
- *3: Check the individual law or regulation, and take actions if necessary.

<u>Table 2- 3</u>

Substance/Substance Group Name: Mercury and its compounds

Regulated items

All applications excepy those in the exemptions shown below. (See Table 2-26 for packaging material)

[Applications and use examples]

Pigment, dye, paint, ink, indicator such as hour meter, relay, switch,

sensor where mercury is used for electrical contact, harmonizer in plastics, packaging material, etc.

Exemption - Uses in batteries *1*2 excluding mercury batteries (under the EU Battery Directive)

- *1: Batteries: primary battery, accumulators (secondary batteries), and battery packs.
- *2: Check the individual law or regulation, and take actions if necessary.

<u>Table 2- 4</u>

Substance/Substance Group Name: Hexavalent chromium compounds

Regulated items

- (1) Leather products snd leather components that have contact with the skin.
- (2) Other than the above: All applications except those in the exemptions shown below. (See Table 2-26 for packaging material)

[Applications and use examples]

Rust-proof treatment, plastics, paint, pigment, ink, packaging materials, leather (e.g. exterior parts of products,

leather parts of carryung cases)etc.

Exemption - Uses in batteries *1*2 (under the EU Battery Directive)

- *1: Batteries: primary battery, accumulators (secondary batteries), and battery packs.
- *2: Check the individual law or regulation, and take actions if necessary.

<u>Table 2- 5</u> <u>Rev.13 (2/5 page)</u>

Substance/Substance Group Name: Specified Brominated Flame-retardant (PBB,PBDE)

(All PBBs and PBDEs including Deca BDE (deca-bromo-diphenyl-ether))

Regulated items

All applications

Products, components, snd devices covered under the EU RoHS Directive, must not contain the above substances sxceeding 1000ppm in total. As for PBDE, articles (e.g. materials for batteries*1*2, packaging materials, toys, and nursery items.) must not contain PBDE exceeding 500ppm in total.

- *1: Batteries: primary battery, accumulators (secondary batteries), and battery packs.
- *2: For batteries, refer to individual law snd regulation, snd take actions if necessary.

<u>Table 2- 6</u>

Substance/Substance Group Name: Four phthalates

Bis (2-ethylhexyl) phthalate (DEHP*1), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP)

Regulated items

Products, components, and devices covered under the EU RoHS Directives must not include 1,000ppm or more per one phthalate.

Products covered under the EU REACH Annex XVII Restriction on phthalates (e.g. Materials for batteries*², Packaging materials*³, and Toys & childcare articles) must not include the phthalates 1,000ppm or more in total of the four phthalates.

[Applications and use examples]

Plasticizer for rubber, elastomer, and resin (particularly polyvinyl chloride)

Additive for paint, ink, and adhesives

- *1: DEHP is often called as DOP, particularly by material manufacturers; therefore, particular attention must be paid to the indication of 'DOP'.
- *2: Batteries: primary battery, accumulators (secondary batteries), and battery packs.
- *3: Note that the four phthalates in the packaging materials sre restricted in total concentration under EU REACH.

■ Toxic Substances Control Act (TSCA) substances

Table 2-7

 $Substance/Substance\ Group\ Name:\ PhenoI,\ is opropylated\ phosphate\ (3:1)\ -\ PIP\ /\ PIP\ (3:1)$

Regulated items

Regulation of Specified Chemical Substances and Mixtures Based on Article 6 of the Hazardous Substances Control Law-All uses other than those shown in § 751.407

[Applications and use examples]

Among other uses, present as flame retardant and/or plasticizing agent in polyvinylchloride (PVC) plastics, polyurethanes,

BPA epoxies, and some lubricants.

Table 2-8

Substance/Substance Group Name: Hexachlorobutadiene / HCBD

Regulated items

All applications

[Applications and use examples]

Not likely to be present. HCBD is usually an intermediate chemical found in the production of other substances, but might remain as a residue.

Table 2-9

Substance/Substance Group Name: Pentachlorothiophenol / PCTP

Regulated items

All applications

[Applications and use examples]

Among other uses, PCTP might be present in butadiene or isoprene rubbers.

<u>Table 2- 10</u>

Substance/Substance Group Name: 2,4,6-TTBP – 2,4,6-tris (tert- butyl) phenol / TTBP

Regulated items

All applications

[Applications and use examples]

Present in some types of oils that might be used to lubricate components.

■ Prohibited substances

<u>Table 2- 11</u> Rev.13 (3/5 page)

Substance/Substance Group Name: Asbestos

Regulated items

All applications

[Applications and use examples]

Gasket (sealing material), insulator, filler, adrasive, pigment, paint, talc, thermal insulator.

Table 2- 12

Substance/Substance Group Name: Tributyl Tin (TBT) and Triphenyl Tin (TPT)

Regulated items

All applications

[Applications and use examples]

paint, pigment, preservative, stabilizers.

<u>Table 2- 13</u>

Substance/Substance Group Name: Dibutyltin (DBT) compounds

Regulated items

All applications

[Applications and use examples]

Preservative, antifungal, agent, paint, pigment, antifouling agent, foaming agent, solvent cleaner.

Table 2- 14

Substance/Substance Group Name: Dioctyltin (DOT) compounds

Regulated items

The following applications:

Textile articles intended to come into contact with the sikn.

<u>Table 2- 15</u>

Substance/Substance Group Name: Bis(tributyltin)oxide (TBTO))

Regulated items

All applications

[Applications and use examples]

 $Preservative, \ antifungal \ agent, \ paint, \ pigment, \ antifouling \ agent, \ Foaming \ agent, \ solvent \ cleaner.$

<u>Table 2- 16</u>

Substance/Substance Group Name: Polychlorinated Biphenyls (PCBs)

Regulated items

All applications

[Applications and use examples]

Insulation oil, lubricant oil, electric insulator, solvent, electrolyte, plasticizer, fire-retardant, flame retardant, coating agent for elestric wires and cables, dielectric sealant.

<u>Table 2- 17</u>

Substance/Substance Group Name: Polychlorinated terphenyls(PCTs)

Regulated items

All applications

[Applications and use examples]

Insulation oil, lubricant oil, electric insulator, solvent, electrolyte, plasticizer, fire-retardant, flame retardant, coating agent for elestric wires and cables, dielectric sealant.

<u>Table 2- 18</u> Rev.13 (4/5 page)

Substance/Substance Group Name: Polychlorinated naphthalenes (more than 2 chlorine atoms)

Regulated items

All applications

[Applications and use examples]

Lubricant, paint, stabilizer (electric property, flame-proof property, water-proof property)

insulator, flame retardant.

<u>Table 2- 19</u>

Substance/Substance Group Name: Alkanes, C10-13, chloro

Regulated items

All applications

[Applications and use examples]

Plasticizer for polyvinyl chloride (PVC), flame retardant.

Table 2- 20

Substance/Substance Group Name: Azocolourants and azodyes which form certain aromatic amines

Regulated items

The following applications:

- Textiles and leather products that may have direct contact with human skin snd/or oral cavities for anextended period of time.

Table 2- 21

Substance/Substance Group Name: Ozone Depleting Substances

Regulated items

All applications

Table 2- 22

Substance/Substance Group Name: Perfluorooctane sulfonate (PFOS)

Regulated items

All applications

Table 2- 23

Substance/Substance Group Name: Perfluorooctanoic acid and its compounds

Regulated items

All applications other then those shown in the Exemptions below

[Applications and use examples]

Fluororesin/Fluor rubber, Fluororesin coating, and antireflection agent in semiconductor exposure process.

Table 2- 24

Substance/Substance Group Name: Fluorinated greenhouse gases (PFC, SF6, HFC)

Regulated items

Each product is restricted by PFC, SF6, HFC global warming potential (GWP) per use.

[Applications and use examples]

Extruded polystyrene form, Rigid polystyrene form, Polystyrene high pressure form spray, and pressure form sprey,

and Polystyrene low pressure form spray which were manufactured using PFC, SF6, HFC.

Table 2- 25

Substance/Substance Group Name: Hexachlorobenzene (HCB)

Regulated items

All applications

[Applications and use examples]

Polyvinyl chloride plasticizer.

<u>Table 2- 26</u> Rev.13 (5/5 page)

Substance/Substance Group Name: Redioactive substances

Regulated items

All applications

Table 2-27

Substance/Substance Group Name: Specified benzotriazole

Regulated items

All applications

<u>Table 2- 28</u>

Substance/Substance Group Name: Dimethyl fumarate (DMF)

Regulated items

All applications

[Applications and use examples]

Moisture-proof agent, mold-proof agent.

<u>Table 2- 29</u>

Substance/Substance Group Name: Formaldehyde

Regulated items

Wood product and parts using materials such as particle boards and MDF (medium density fiberboard).

For formaldehydverordnung content in fiber, products sold in Europe subject to the Austria regulates
 (Austria - BGB I 1990/194:Formaldehydverordnung, regulated amount = 75ppm) must comply with this regulation.

<u>Table 2- 30</u>

Substance/Substance Group Name: Quadruple metal (Cadmium and lead and mercury and Hexavalent chromium)

Regulated items

All uses in packaging other than listed in the exempted items

[Applications and use examples]

Pigment, dye, paint, ink, packing material, adhesive agent, staple, label.

Exemption Case that reuse of the substance in a closed loop such as palettes is clearly stated. *1

*1: When a packaging material with a total content of four heavy metals exceeding 100ppm is reused in a closed loop confirm and handle each case individually since notification obligation etc. may be posed by the US Specified States Toxics in Packaging Regulation.

Table-3 Prohibited Substances / Substances CAS Number List

■ EU RoHS Directive Table 3-1 Rev.13 (1/7 page)

Table 5 I			NCV.13 (1/ 1 page)
Substance/	Substance Group Name: Cadmium and its compounds		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Metals compound	cadmium	Cd	7440-43-9
	Cadmium oxide	CdO	1306-19-0
	Cadmium sulfide	CdS	1306-23-6
	Cadmium chloride	CdCl2	10108-64-2
	Cadmium sulfate	CdSO4	10124-36-4
	Other cadmium compounds	-	_

Table 3- 2

<u>I able 3- 2</u> Substance,	/Substance Group Name: Lead and its compounds		
CAS number list			
_arge classification	Substance name	Chemical Formula	CAS No.
Metals compound	Lead	Pb	7439-92-1
	Lead carbonate	PbCO3	598-63-0
	Lead dioxide	PbO2	1309-60-0
	Trilead tetraoxide	Pb3O4	1314-41-6
	Lead(II) sulfide	PbS	1314-87-0
	Lead(II) oxide	PbO	1317-36-8
	Lead(II) Carbonate Basic	2PbCO3.Pb(OH)2	1319-46-6
	Lead(II) carbonate basic	2PbCO3.Pb(OH)2	1344-36-1
	Lead(II) sulfate	PbSO4	7446-14-2
	Lead(II) phosphate	Pb3(PO4)2	7446-27-7
	Dilead chromate oxide	PbCrO4	7758-97-6
	lead(II) titanate	PbTiO3	12060-00-3
	Lead sulfate	PbXSO4	15739-80-7
	Lead sulfate tribasic	PbSO4.H2O	12202-17-4
	Lead stearate	Pb(C17H35COO)2	1072-35-1
	Dibasic lead stearate	2PbO · Pb(C17H35COO)2	56189-09-4
	Lead acetate	C4H6O4Pb / (CH3COO)2Pb	301-04-2
	Lead(II) acetate trihydrate	Pb(CH3COO)2 · 3H2O	6080-56-4
	Lead(II) Selenide	PbSe	12069-00-0
	Lead chromate molybdate sulfate; Molybdenum Red	-	12656-85-8
	C.I. Pigment Yellow 34	-	1344-37-2
	lead arsenate	Pb3(AsO4)2	3687-31-8
	Acidic lead arsenate	AsHO4Pb	7784-40-9
	Other lead compounds	-	_

<u>Table 3- 3</u>

Substance/	Substance Group Name: Mercury and its compounds		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Metals compound	mercury	Hg	7439-97-6
,	Mercury dichloride	HgCl2	7487-94-7
	Mercury(II) oxide	HgO	21908-53-2
	Mercury(II) Chloride	-	33631-63-9
	Mercury sulfate	HgSO4	7783-35-9
	Mercury(II) nitrate	HgN2O6 / Hg(NO3)2	10045-94-0
	Mercury(II) sulfide	HgS	1344-48-5
	Other mercury compounds	=	_

<u>Table 3- 4</u>

Substance/	Substance Group Name: Hexavalent chromium compounds		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Metals compound	Sodium dichromate	Na2Cr2O7	10588-01-9
	Chromium oxide	CrO3	1333-82-0
	Calcium chromate	CaCrO4	13765-19-0
	Lead chromate	PbCrO4	7758-97-6
	Potassium dichromate	K2Cr2O7	7778-50-9
	Potassium chromate	K2CrO4	7789-00-6
	Barium chromate	BaCrO4	10294-40-3
	Sodium chromate	Na2CrO4	2146108
	Strontium chloriomate	SrCrO4	2151068
	Other hexavalent chromium compounds	-	_

<u>Table 3- 5</u> Rev.13 (2/7 page)

Substance	Substance Group Name: Specified Brominated Flame-retardant	(PRR PRNF)	Rev.13 (2/1 pag
	nd PBDEs including Deca BDE (deca-bromo-diphenyl-ether))		
AS number list	na i BBEe melaamig Beed BBE (aeed brome alphony) ealei//		
arge classification	Substance name	Chemical Formula	CAS No.
Halogenated	Polybrominated biphenyls (PBB)	C12HXBr(10-X)	_
organic compounds		C12H9Br	2052-07-5
		C12H9Br	2113-57-7
		C12H9Br	92-66-0
		C12H8Br2	92-86-4
		C12H7Br3	59080-34-1
		C12H6Br4	40088-45-7
		C12H5Br5	56307-79-0
		C12H4Br6	59080-40-9
		C12H4Br6	36355-01-8
		C12H3Br7	35194-78-6
		C12H2Br8	61288-13-9
		C12HBr9	27753-52-2
		C12Br10	13654-09-6
	Substance name	Chemical Formula	CAS No.
	Polybrominated diphenyl ethers (PBDE)	C12HXBr(10-X)O	_
		C12Br10O	1163-19-5
		C12H2Br8O	32536-52-0
		C12H4Br6O	36483-60-0
		C12H5Br5O	32534-81-9
		C12H9BrO	101-55-3
		C12H8Br2O	2050-47-7
		C12H7Br3O	49690-94-0
		C12H6Br4O	40088-47-9
		C12H3Br7O	68928-80-3
		C12HBr9O	63936-56-1

<u>Table 3- 6</u>					
Substance/Substance Group Name: Four phthalates					
_	Bis (2-ethylhexyl) phthalate (DEHP*1)				
_	Butyl benzyl phthalate (BBP)				
_	Dibutyl phthalate(DBP)				
_	Diisobutyl phthalate (DIBP)				
CAS number list					
Large classificati	on Substance name	Chemical Formula	CAS No.		
Other	Dibutyl phthalate	C16H22O4	84-74-2		
	Di (2-ethylhexyl) phthalate	C24H38O4	117-81-7		
	Diisononyl phthalate	C24H38O4	28553-12-0		
	Diisodecyl phthalate	C28H46O4	26761-40-0		
	Butyl Benzyl phthalate	C19H20O4	85-68-7		
	Di-n-octyl phthalate	C6H4 (COO (CH2) 7CH3) 2	117-84-0		
	Diisobutyl phthalate	(C6H4)(COOCH2CH(CH3)2)2	84-69-5		
	Di-n-hexyl phthalate	C20H30O4	84-75-3		

■ Toxic Substances Control Act (TSCA) substances

Table 3-7 Rev.13 (3/7 page)

Table 3- 1			Rev. 13 (3/1 page)			
Substance/	Substance/Substance Group Name: Phenol, isopropylated phosphate (3:1) - PIP / PIP (3:1)					
CAS number list	CAS number list					
Large classification	Substance name	Chemical Formula	CAS No.			
Metals compound	Phenol, isopropylated phosphate	C27H33O4P	68937-41-7			

Table 3-8

10010 0 0					
Substance/Substance Group Name: Hexachlorobutadiene / HCBD					
CAS number list	CAS number list				
Large classification	Substance name	Chemical Formula	CAS No.		
Metals compound	Hexachlorobutadiene	C4CI6 (260.76)	87-68-3		

Table 3- 9

Substance/	Substance Group Name: Pentachlorothiophenol / PCTP		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Metals compound	Pentachlorothiophenol	C6HCl5S	133-49-3

<u>Table 3- 10</u>

Substance/	Substance/Substance Group Name: 2,4,6-TTBP – 2,4,6-tris (tert- butyl) phenol / TTBP			
CAS number list				
Large classification	Substance name	Chemical Formula	CAS No.	
Metals compound	2,4,6-TTBP – 2,4,6-tris (tert- butyl) phenol	C18H30O (262.44)	732-26-3	

■ Prohibited substances

<u>Table 3- 11</u>

Substance/	Substance Group Name: Group Name: Asbestos		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Other	Actinoid	-	77536-66-4
	Amosite	-	12172-73-5
	anthophyllite	-	77536-67-5
	Chrysotile	-	12001-29-5
	Crocidolite	-	12001-28-4
	Tremolite	-	77536-68-6
	Other asbestos	=	_

<u>Table 3- 12</u>

Substance/	Substance Group Name: Tributyl Tin (TBT) and Triphenyl Tin (TPT)		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Metals compound	Bis (TributyItin) = Maleart	C2H2(COO)2((C4H9)3Sn)2	14275-57-1
·	Tributyltin-chloride	(C4H9)3SnCl	1461-22-9
	A mixture of tributyltin-cyclopentane carboxylate and its analogs	(C4H9)3SnCO3C5H9	1
	Tributyltin = 1,2,3,4,4a, 4b, 5,6,10,10a-decahydro-7-isopropyl-1,Mixture of 4a-		
	dimethyl-1-phenanthrene carboxylate and its analogs		
	Other tributyltins (TBTs), triphenyltins (TPTs)	-	ĺ

<u>Table 3- 13</u>

Substance/	Substance Group Name: DibutyItin (DBT) compounds		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Metals compound	Dibutyltin Dichloride	C8H18CI2Sn	683-18-1
	Dibutyltin Dilaurate	C32H64O4Sn	77-58-7
	Dibutyltin Maleate	C12H20O4Sn	78-04-6
	Dibutyltin oxide	C8H18OSn	818-08-6
	Dibutyltin Diacetate	C12H24O4Sn	1067-33-0
	Dibutyltin bis(2-ethylhexyl mercaptoacetate	C28H56O4S2Sn	10584-98-2
	Diisooctyl 2,2'-[(dibutylstannylene)bis(thio)]diacetate	C28H56O4S2Sn	25168-24-5

<u>Table 3- 14</u> <u>Rev.13 (4/7 page)</u>

Substance/	Substance Group Name: Dioctyltin (DOT) compounds		1101120 (1/1 page
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Metals compound	Dioctyltin oxide (DOTO)	C16H34OSn	870-08-6
	Dioctyltin dichloride (DOTC)	C16H34Cl2Sn	3542-36-7
	Dioctyl tin dilaurat (DOTL)	C40H80O4Sn	3648-18-8
	Dioctyl tinbis (2-ethylhexyl malate)	C40H72O8Sn	10039-33-5
	Dioctyltin bis (mercaptoacetic acid 2-ethylhexyl) (DOT(EHTG))	C36H72O4S2Sn	15571-58-1
	Dioctyltin maleate (DOTM)	C20H36O4Sn	16091-18-2
	Diisooctyl 2,2'-[(dioctylstannylene)bis(thio)]diac (DOT(IOTG))	C36H72O4S2Sn	26401-97-8
	Dioctyl tinbis (butylmalate)	C32H56O8Sn	29575-02-8
	Dioctyl tin bis (ethylmalate)	C28H48O8Sn	68109-88-6
	Dioctyl tinmercaptoacetic acid	C18H36O2SSn	15535-79-2
	Dioctyltin 3-mercaptopropionic acid	C19H38O2SSn	3033-29-2

<u>Table 3- 15</u>

Substance/Substance Group Name: Bis(tributyItin)oxide (TBTO))			
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Metals compound	Bis(Tributyltin)oxide bis(Tributyltin)oxide	O(Sn(C4H9)3)2	56-35-9

Tab**l**e 3- 16

14510 5 10			
Substance/	Substance Group Name: Polychlorinated Biphenyls (PCBs)		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
	Monomethyl- tetrachloro-diphenyl methane (Ugilec 141)	C14H10CI4	76253-60-6
organic compounds	Monomethyl-dichloro-diphenylmethane (Ugilec 121、Ugilec 21)	-	81161-70-8
8	Monomethyl-dibromo-diphenylmethane (DBBT)	_	99688-47-8
	Polychlorinated biphenyls	_	1336-36-3

<u>Table 3- 17</u>

Substance/	Substance Group Name: Polychlorinated terphenyls(PCTs)		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Halogenated organic compounds	PCT (Polychlorinated terphenyl)	_	61788-33-8

<u>Table 3- 18</u>

Substance/	Substance Group Name: Polychlorinated naphthalenes (more tha	n 2 chlorine atoms)	
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Halogenated	1,2-dichloronaphthalene	C10H6Cl2	2050-69-3
organic compounds	2,4-dichloronaphthalene	C10H6Cl2	2198-75-6
ngame compounde	1,4-dichloronaphthalene	C10H6Cl2	1825-31-6
	1,5-dichloronaphthalene	C10H6Cl2	1825-30-5
	1,6-dichloronaphthalene	C10H6Cl2	2050-72-8
	1,7-dichloronaphthalene	C10H6Cl2	2050-73-9
	1,8-dichloronaphthalene	C10H6Cl2	2050-74-0
	2,3-dichloronaphthalene	C10H6Cl2	2050-75-1
<u> </u>	2,6-dichloronaphthalene	C10H6Cl2	2065-70-5
	2,7-dichloronaphthalene	C10H6Cl2	2198-77-8
	dichloronaphthalene	C10H6Cl2	28699-88-9

Table 3- 19 Rev.13 (5/7 page)

14016 2- 13			itevita (a/ r page)
Substance/	Substance Group Name: Alkanes, C10-13, chloro		
CAS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Halogenated	Undecane, 1,1,1,3,5,7,9,11,11-nonachloro	C11H15CI9	18993-26-5
organic compounds	Undecane, octachloro	C11H16Cl8	36312-81-9
organia compoundo	1,1,1,2-tetrachloroundecane	C11H20CI4	63981-28-2
	Undecane, heptachloro	-	219697-10-6
	Undecane, nonachloro	-	219697-11-7
	Undecane, 1,2,10,11,?,?,?,?- octachloro	-	221174-07-8
	Undecane, decachloro	-	276673-33-7
	Undecane, 1,1,1,3,6,7,10,11- octachloro	-	601523-20-0
	Undecane, 1,1,1,3,9,11,11,11- octachloro	-	601523-25-5

Table 3- 20

:AS number list			
Large classification	Substance name	Chemical Formula	CAS No.
Halogenated	4-aminobiphenyl	C12H11N	92-67-1
organic compounds	Benzidine	C12H12N2	92-87-5
	4-Chloro-2-methylaniline	C7H8CIN	95-69-2
	2-Naphthylamine	C10H9N	91-59-8
	2-Aminoazotoluene	C14H15N3	97-56-3
	2-Methyl-5-nitroaniline	C7H8N2O2	99-55-8
	4-Chloroaniline	C6H6CIN	106-47-8
	4-Methoxy-m-phenylenediamine	C7H10N2O	615-05-4
	4,4'-Diaminodiphenylmethane	C13H14N2	101-77-9
	3,3'-Dichlorobenzidine	C12H10Cl2N2	91-94-1
	3,3'-Dimethoxybenzidine	C14H16N2O2	119-90-4
	3,3'-Dimethylbenzidine	C14H16N2	119-93-7
	4,4'-Diamino-3,3'-dimethyldiphenylmethane	C15H18N2	838-88-0
	2-Methoxy-5-methylaniline	C8H11NO	120-71-8
	4,4'-Methylenebis(2-chloroaniline)	C13H12Cl2N2	101-14-4
	4,4'-Diaminodiphenyl Ether	C12H12N2O	101-80-4
	4,4' -Diaminodiphenyl sulfide	C12H12N2S	139-65-1

Table 3- 21

Class	Substance name	Chemical Formula	CAS No.
Montreal Protocol	CFC-11	CFCI3	_
Annex A	CFC-12	CHF2CI	_
Class I	CFC-113	C2F3CI3	_
Class I	CFC-114	C2F4CI2	I
	CFC-115	C2F5CI	I
Class II	halon-1211	CF2BrCl	1
	halon-1301	CF3Br	İ
	halon-2402	C2F4Br2	1
Montreal Protocol	CFC-13	CF3CI	l
Annex B	CFC-111	C2FCI5	Ī
Class I	CFC-112	C2F2CI4	
Olass I	CFC-211	C3FCI7	1
	CFC-212	C3F2CI6	l
	CFC-213	C3F3CI5	Ī
	CFC-214	C3F4CI4	I
	CFC-215	C3F5CI3	1
	CFC-216	C3F6CI2	ı
	CFC-217	C3F7CI	1
Class II	carbon tetrachloride	CCI4	I
Class III	1,1,1-trichloro- Methyl chloroform	C2H3Cl3	1

Table 3- 22 Rev.13 (6/7 page)

			1101120 (0/ 1 000				
Substance/	Substance Group Name: Perfluorooctane sulfonate (PFOS)						
CAS number list							
Large classification Substance name Chemical Formula CAS							
Other	Pentadecafluorooctan sulfonic acid	C8HF17O3S	1763-23-1				
	Potassium perfluorooctane-1- sulfonate	C8F17KO3S	2795-39-3				
	Sodium perfluoro(octane-1-sulfonate	C8F17NaO3S	4021-47-0				
	Lithium perfluorooctane sulfonate	C8F17LiO3S	29457-72-5				
	Ammonium perfluorooctane sulfonate	C8H4F17NO3S	29081-56-9				
	Tetraethylammonium perfluorooctane sulfonate	C12H12F17NO5S	70225-14-8				
	Tetraethylammonium perfluorooctane sulfonate	C16H20F17NO3S	56773-42-3				
	Didecyldimethylammonium perfluorooctane sulfonate	C30H48F17NO3S	251099-16-8				

Table 3- 23

1 able 5 25	01: 0 N D d : : : 1 1::					
Substance/	Substance Group Name: Perfluorooctanoic acid and its compoun	ds				
CAS number list						
Large classification Substance name Chemical Formula CAS No.						
Other	Pentadecafluorooctanoic Acid	C8HF15O2	335-67-1			
	Ammonium Pentadecafluorooctanoate	C8H4F15NO2	3825-26-1			
	Sodium pentadecafluorooctanoate	C8F15NaO2	335-95-5			
	Potassium perfluorooctanoate	C8F15KO2	2395-00-8			
	Silver(1+) pentadecafluorooctanoate	C8AgF15O2	335-93-3			

Table 3- 24

number list		0, 1, 15	0.40 N
ge classification	Substance name	Chemical Formula	CAS No.
Other	Carbon tetrafluoride	PFC-14	75-73-0
	Hexafluoroethane	PFC-116	76-16-4
	Propane, 1,1,1,2,2,3,3,3-octafluoro	PFC-218	76-19-7
	Decafluorobutane	PFC-31-10	355-25-9
	Dodecafluoro-n-pentane	PFC-41-12	678-26-2
	Tetradecafluorohexane	PFC-51-14	355-42-0
	Octafluorocyclobutane	PFC-C318	115-25-3
	Sulfur hexafluoride	SF6	2551-62-4
	Trifluoromethane	HFC-23	75-46-7
	Difluoromethane	HFC-32	75-10-5
	Methyl fluoride	HFC-41	593-53-3
	2H,3H-Decafluoropentane	HFC-43-10mee	138495-42-8
	Pentafluoroethane	HFC-125	354-33-6
	1,1,2,2-Tetrafluoroethane	HFC-134	359-35-3
	1,1,1,2-Tetrafluoroethane	HFC-134a	811-97-2
	1,1-Difluoroethane	HFC-152a	75-37-6
	1,1,2-Trifluoroethane	HFC-143	430-66-0
	1,1,1-Trifluoroethane	HFC-143a	420-46-2
	1,1,1,2,3,3,3-heptafluoropropane	HFC-227ea	431-89-0
	1,1,1,2,2,3-Hexafluoro-propane	HFC-236cb	677-56-5
	1,1,1,2,3,3- hexafluoropropane	HFC-236ea	431-63-0
	1,1,1,3,3,3-Hexafluoropropane	HFC-236fa	690-39-1
	1,1,2,2,3-Pentafluoropropane	HFC-245ca	679-86-7
	1,1,1,3,3-Pentafluoropropane	HFC-245fa	460-73-1
	1,1,1,3,3-Pentafluorobutane	HFC-365mfc	406-58-6
	1,2-Difluoroethane	HFC-152	624-72-6
	fluoroethane	HFC-161	353-36-6

Table 3- 25 Rev.13 (7/7 page)

			114 114 (17 1 present		
Substance/Substance Group Name: Hexachlorobenzene (HCB)					
CAS number list					
Large classification	Substance name	Chemical Formula	CAS No.		
Other	Hexachlorobenzene	C6CI6	118-74-1		

Table 3- 26

Substance/Substance Group Name: Specified benzotriazole					
CAS number list	CAS number list				
Large classification	Substance name	Chemical Formula	CAS No.		
Other	2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol	C20H25N3O	3846-71-7		

<u>Table 3- 27</u>

10010 0 21	ONIO O ET					
Substance/Substance Group Name: Dimethyl fumarate (DMF)						
CAS number list	CAS number list					
Large classification Substance name Chemical Formula CAS No.						
Other	624-49-7					

<u>Table 3- 28</u>

Substance/Substance Group Name: Formaldehyde						
CAS number list	CAS number list					
Large classification	Substance name	Chemical Formula	CAS No.			
Other	50-00-0					

Table-4
Controlled Substances List (REACH-regulated and MDR substances and other substances)

Rev.13 (1/7page)

No.	Chemical substances	CAS No ※2	REACH SVHC	REACH Annex XV II	MDR
1	Cadmium fluoride	7790-79-6	0	0	0
2	Cadmium sulphate	10124-36-4	0	0	0
		31119-53-6	0	0	_
3	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0	-	_
4	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0	_	_
5	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0	0	0
	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-				
6	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)	=	0	_	_
-	· · · · · · · · · · · · · · · · · · ·	COE1E E0 4			
	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4 10108-64-2	0	0	0
_	Cadmium chloride	10108-64-2			
9	Sodium perborate; perboric acid, sodium salt		0	0	0
	Sodium peroxometaborate	7632-04-4	0	0	0
	Cadmium sulphide	1306-23-6	0	0	0
	Dihexyl phthalate	84-75-3	0	0	0
13	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0	0	0
14	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	0	0	0
15	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	0	0	0
16	Lead di(acetate)	301-04-2	0	0	0
17	Trixylyl phosphate	25155-23-1	0	0	0
18	Cadmium	7440-43-9	0	0	0
19	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0	0	0
20	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0	0	0
21	Dipentyl phthalate (DPP)	131-18-0	0	0	0
22	4-Nonylphenol, branched and linear, ethoxylated	=	0	-	_
23	Cadmium oxide	1306-19-0	0	0	0
	Pyrochlore, antimony lead yellow	8012-00-8	0	0	_
25	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0	0	0
26	Henicosafluoroundecanoic acid	2058-94-8	0		_
	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-	25550-51-0	0	_	_
07	methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and	19438-60-9	0	-	_
27	[4] (including their cis- and trans- stereo isomeric f	48122-14-1	0	- 1	_
	[4] (ilicidating their cis- and trans- steleo isolileric i	57110-29-9	0	_	_
	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-	85-42-7	0	_	_
28	cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all	13149-00-3	0		_
	possible combinations of the cis- and trans-isom	14166-21-3	0	- 1	
29	Dibutyltin dichloride (DBTC)	683-18-1	0	0	0
	Lead bis(tetrafluoroborate)	13814-96-5	0	0	
_	Lead dinitrate	10099-74-8	0	0	
	Silicic acid, lead salt	11120-22-2	0	0	
	4-Aminoazobenzene	60-09-3	0	0	0
	Lead titanium zirconium oxide	12626-81-2	0	0	
	Lead monoxide (lead oxide)	1317-36-8	0	0	
	o-Toluidine	95-53-4	0	0	0
	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0	0	0
	Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped	68784-75-8	0	0	
	Trilead bis(carbonate)dihydroxide	1319-46-6	0	0	
	Furan	110-00-9	0	0	0
	N,N-dimethylformamide 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances,	68-12-2	0	0	0
42	polymers and homologues]	=	0	_	
43	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	_	0	_	_
44	4.4'-methylenedi-o-toluidine	838-88-0	0	0	0
	Diethyl sulphate	64-67-5	0	0	
	Proteit) anihumo	5.575)	$\overline{}$)

No.	Chemical substances	CAS No ※2	REACH SVHC	REACH Annex XV II	MDR
46	Dimethyl sulphate	77-78-1	0	0	0
47	Lead oxide sulfate	12036-76-9	0	0	_
48	Lead titanium trioxide	12060-00-3	0	0	
49	Acetic acid, lead salt, basic	51404-69-4	0	0	_
50	[Phthalato(2-)]dioxotrilead	69011-06-9	0	0	_
51	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0	0	_
52	N-methylacetamide	79-16-3	0	0	0
53	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0	0	0
54	1,2-Diethoxyethane	629-14-1	0	0	0
55	Tetralead trioxide sulphate	12202-17-4	0	0	_
56	N-pentyl-isopentylphthalate	776297-69-9	0	_	-
57	Dioxobis(stearato)trilead	12578-12-0	0	0	1
58	Tetraethyllead	78-00-2	0	0	_
59	Pentalead tetraoxide sulphate	12065-90-6	0	0	_
60	Pentacosafluorotridecanoic acid	72629-94-8	0	_	_
61	Tricosafluorododecanoic acid	307-55-1	0	_	_
62	Heptacosafluorotetradecanoic acid	376-06-7	0	-	-
63	1-bromopropane (n-propyl bromide)	106-94-5	0	0	0
64	Methoxyacetic acid	625-45-6	0	0	0
65	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0	0	0
66	Methyloxirane (Propylene oxide)	75-56-9	0	0	0
67	Trilead dioxide phosphonate	12141-20-7	0	0	_
68	o-aminoazotoluene	97-56-3	0	0	0
69	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0	0	0
70	4,4'-oxydianiline and its salts	101-80-4	0	0	0
71	Orange lead (lead tetroxide)	1314-41-6	0	0	_
72	Biphenyl-4-ylamine	92-67-1	0	0	0
	Diisopentylphthalate	605-50-5	0	0	0
74	Fatty acids, C16-18, lead salts	91031-62-8	0	0	_
75	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0	_	_
_	Sulfurous acid, lead salt, dibasic	62229-08-7	0	0	_
77	Lead cyanamidate	20837-86-9	0	0	_
78	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	0	0	0
79	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0	0	0
80	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0	0	0
	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	561-41-1	0	_	_
82	Lead(II) bis(methanesulfonate)	17570-76-2	0	0	0
83	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0	0	0
_	Diboron trioxide	1303-86-2	0	0	0
85	α, α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	0	_	
-	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0	0	0
-	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0	0	0
	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0	Ō	0
89	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]	2580-56-5	0	_	
90	dimethvlammonium chloride (C.I. Basic Blue 26) Formamide	75-12-7	0	0	0
-	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0	_	_
_		127-19-5	0	0	0
_	N,N-dimethylacetamide	77-09-8	0	0	0
93	Phenolphthalein	13424-46-9	0	0	0
	Lead diazide, Lead azide			0	
	Lead dipicrate	6477-64-1	0		
	Calcium arsenate	7778-44-1	0	0	
_	1,2-dichloroethane	107-06-2	0	0	0
_	Dichromium tris(chromate)	24613-89-6	0	0	0
	2-Methoxyaniline; o-Anisidine	90-04-0	0	0	0
100	Pentazinc chromate octahydroxide	49663-84-5	0	0	_

No.	Chemical substances	CAS No ※2	REACH SVHC	REACH Annex XV II	MDR
101	Arsenic acid	7778-39-4	0	0	_
	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	0	0	_
	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0	_	_
	Lead styphnate	15245-44-0	0	0	0
	Trilead diarsenate	3687-31-8	0	0	_
106	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	0	_	_
	Aluminosilicate Refractory Ceramic Fibres	-	0	_	_
108	Bis(2-methoxyethyl) phthalate	117-82-8	0	0	0
109	Bis(2-methoxyethyl) ether	111-96-6	0	0	0
110	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0	0	0
	Cobalt dichloride	7646-79-9	0	0	0
112	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0	0	0
113	Strontium chromate	7789-06-2	0	0	0
114	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0	0	0
115	1-Methyl-2-pyrrolidone	872-50-4	0	0	0
	1,2,3-Trichloropropane	96-18-4	0	0	0
117	2-Ethoxyethyl acetate	111-15-9	0	0	0
118	Hydrazine	302-01-2	0	0	0
		7803-57-8	0	_	
	Cobalt(II) diacetate	71-48-7	0	0	0
	Cobalt(II) sulphate	10124-43-3	0	0	0
	2-Ethoxyethanol	110-80-5	0	0	0
	2-Methoxyethanol	109-86-4	0	0	0
123	Chromium trioxide	1333-82-0	0	0	0
124	Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid,	7738-94-5	0	0	
105	Dichromic acid, Oligomers of chromic acid and dichromic acid	13530-68-2	0	0	
	Cobalt(II) carbonate	513-79-1	0	0	0
_	Cobalt(II) dinitrate	10141-05-6	0	0	0
_	Trichloroethylene	79-01-6	0	0	0
	Potassium dichromate	7778-50-9 12267-73-1		0	$\frac{0}{0}$
	Tetraboron disodium heptaoxide, hydrate	7789-09-5	0	0	$\frac{0}{0}$
130	Ammonium dichromate Boric acid	10043-35-3	0	0	$\stackrel{\circ}{\rightarrow}$
131	Bonc acid	11113-50-1	0	0	$\frac{\circ}{\circ}$
132	Sodium chromate	7775-11-3	0	0	$\frac{\circ}{\circ}$
132	Disodium tetraborate, anhydrous	1303-96-4	0	0	$\overline{}$
133		1330-43-4	0	0	$\overline{}$
100		12179-04-3	0	0	0
134	Potassium chromate	7789-00-6	0	Ō	Ō
	Acrylamide	79-06-1	0	Ō	0
	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	0	Ō	0
	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	0	0	0
_	Anthracene oil	90640-80-5	0	0	0
	2,4-Dinitrotoluene	121-14-2	0	0	0
140	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0	0	0
	Anthracene oil, anthracene-low	90640-82-7	0	0	0
142	Tris(2-chloroethyl)phosphate	115-96-8	0	0	0
143	Diisobutyl phthalate	84-69-5	0	0	0
144	Lead chromate	7758-97-6	0	0	0
145	Anthracene oil, anthracene paste	90640-81-6	0	0	0
146	Pitch, coal tar, high temp.	65996-93-2	0	0	0
147	Anthracene oil, anthracene paste, distn. lights	91995-17-4	0	0	0
148	Lead hydrogen arsenate	7784-40-9	0	0	0
149	Benzyl butyl phthalate (BBP)	85-68-7	0	0	0
150	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0	0	0
	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0	_	_
152	Bis(tributyltin)oxide (TBTO)	56-35-9	0	0]
153	Diarsenic trioxide	1327-53-3	0	0	0
154	Sodium dichromate	7789-12-0	0	0	
		10588-01-9	0	0	0
155	Triethyl arsenate	15606-95-8	0	0	0

No.	Chemical substances	CAS No ※2	REACH SVHC	REACH Annex XV II	MDR
156	Diarsenic pentaoxide	1303-28-2	0	0	0
157	Dibutyl phthalate (DBP)	84-74-2	0	0	0
158	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0	0	0
159	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0	_	_
160	Anthracene	120-12-7	0	_	_
	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-	25637-99-4	0	_	_
	hexabromocyclododecane Gamma-hexabromocyclododecane	3194-55-6	0	_	_
161		134237-50-6	0	-	-
		134237-51-7	0	_	_
		134237-52-8	0	_	_
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl	271-094-0	0	_	_
162	diesters with ? 0.3% of dihexyl phthalate	272-013-1	0	_	_
	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-				
163	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	_	0	_	-
164	Nitrobenzene	98-95-3	0	0	0
	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0		
	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0	_	
	1,3-propanesultone	1120-71-4	0	0	0
	Perfluorononan-1-oic acid(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acidand its sodium and ammonium	375-95-1	0	0	0
	salts	21049-39-8	0	0	0
100	301.3	4149-60-4	0	0	0
160	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0	0	$\frac{\circ}{\circ}$
		80-05-7	0	0	$\frac{\circ}{\circ}$
170	4.4'-isopropylidenediphenol (bisphenol A)	80-03-7		\vdash	$\overline{}$
	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 UVCB- and well-defined	_	0	_	_
	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	0	0	0
172		3830-45-3	0	0	0
		3108-42-7	0	0	0
	p-(1,1-dimethylpropyl)phenol	80-46-6	0	_	
174	Perfluorohexane-1-sulphonic acid and its salts	355-46-4	0	_	
175	Chrysene	218-01-9	0	0	0
		1719-03-5	0	_	
176	Benz[a]anthracene	56-55-3	0	0	0
		1718-53-2	0	_	_
177	Cadmium nitrate	10325-94-7	0	0	0
178	Cadmium hydroxide	21041-95-2	0	0	0
179	Cadmium carbonate	513-78-0	0	0	0
	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0	_	-
	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	-	-
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	0	_	_
	Decamethylcyclopentasiloxane (D5)	541-02-6	0	0	_
	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0	_	_
_	Lead	7439-92-1	0	0	0
	Disodium octaborate	12008-41-2	0	0	0
_	Benzo[ghi]perylene	191-24-2	0	_	
	Terphenyl hydrogenated	61788-32-7	0	 _ 	
	Ethylenediamine	107-15-3	0	_	
	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0	_	
	Dicyclohexyl phthalate (DCHP)	84-61-7	0	0	0
-		6807-17-6	0	0	0
	2,2-bis(4'-hydroxyphenyl)-4-methylpentane			_	
	Benzo [k] fluoranthene	207-08-9	0	0	0
_	Fluoranthene	206-44-0		\vdash	
195	Phenanthrene	85-01-8	0	-	

No.	Chemical substances	CAS No ※2	REACH SVHC	REACH Annex XV II	MDR
196	Pyrene	129-00-0	0	_	_
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0	_	_
198	2-methoxyethyl acetate	110-49-6	0	0	0
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\ge 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0	_	_
200	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	_	_
201	4-tert-butylphenol	98-54-4	0	_	-
202	Diisohexyl phthalate	71850-09-4	0	_	0
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0	_	0
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0	0	0
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0	_	_
206	1-vinylimidazole	1072-63-5	0	_	0
207	2-methylimidazole	693-98-1	0	-	0
208	Butyl 4-hydroxybenzoate	94-26-8	0	_	0
209	DibutyIbis(pentane-2,4-dionato-0,0')tin	22673-19-4	0	0	0
	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0	_	_
_	Dioctyltin dilaurate	_	0	_	_
212	Polychlorinated terphenyls (PCTs)	_	_	0	_
	Chloroethene, (Vinyl chloride)	75-01-4	_	0	0
214	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories	-	-	0	-
215	Tris (2,3 dibromopropyl) phosphate	126-72-7	-	0	_
216	Benzene	71-43-2	_	0	0
-	Asbestos fibres	_	_	Ō	_
	Tris(aziridinyl)phosphinoxide	545-55-1	_	0	_
219	Polybromobiphenyls, Polybrominatedbiphenyls (PBB)	59536-65-1	_	Ō	_
	Soap bark powder (Quillaja saponaria) and its derivatives containing saponines	68990-67-0	_	0	_
	Powder of the roots of Helleborus viridis and Helleborus niger	_	_	$\frac{1}{0}$	_
	Powder of the roots of Veratrum album and Veratrum nigrum	_	_	Ō	_
220	Benzidine and/or its derivatives	92-87-5	_	0	0
	o-Nitrobenzaldehyde	552-89-6	_	0	
	Wood powder	-	_	0	
	Ammonium sulphide	12135-76-1	_	0	_
221	Ammonium hydrogen sulphide	12124-99-1	_	0	
	Ammonium polysulphide	9080-17-5		0	
222	Volatile esters of bromoacetic acids	_		0	
	2-naphthylamine and its salts	91-59-8		0	0
	Benzidine and its salts	92-87-5	_	0	$\frac{\circ}{\circ}$
225	4-Nitrobiphenyl	92-93-3	_	0	$\frac{\circ}{\circ}$
227	Lead carbonates	92-93-3	_	0	
	Lead sulphates			0	
	Mercury compounds				
	Mercury	7439-97-6		0	
-	·	1439-91-0	l		0
	Arsenic compounds	_	_	0	
	Organostannic compounds				
	Di- μ-oxo-di-n-butylstanniohydroxyborane / Dibutyltin hydrogen borate C8H19BO3Sn (DBB)	75113-37-0		0	0
	Pentachlorophenol and its salts and esters	_		0	
	Cadmium and its compounds	70050 00 0	_	0	
-	Monomethyl-tetrachlorodiphenyl methane Trade name: Ugilec 141	76253-60-6	_	0	
237	Monomethyl-dichloro-diphenyl methane Trade name: Ugilec 121, Ugilec 21	_	_		-
	Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers Trade name: DBBT	99688-47-8	_	0	
239	Nickel and its compounds	_		0	_
240	Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2) and listed as follows (See group members):	_	-	0	_

No.	Chemical substances	CAS No ※2	REACH SVHC	REACH Annex XV II	MDR
241	Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen	-	_	0	_
	category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2) and listed as follows (See group members):				
242	Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction	_	_	0	_
	category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows (See group Creosote; wash oil	8001-58-9	_	0	0
	Creosote oil; wash oil	61789-28-4		0	$\frac{\circ}{\circ}$
	Distillates (coal tar), naphthalene oils; naphthalene oil	84650-04-4	_	0	<u> </u>
	Creosote oil, acenaphthene fraction; wash oil	90640-84-9	_	l o	<u> </u>
243	Distillates (coal tar), upper; heavy anthracene oil	65996-91-0	_	Ō	<u> </u>
	Anthracene oil	90640-80-5	_	0	0
	Tar acids, coal, crude; crude phenols	65996-85-2	_	0	0
	Creosote, wood	8021-39-4	_	0	_
	Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline	122384-78-5	1	0	0
244	Chloroform	67-66-3	_	0	-
245	1,1,2-Trichloroethane	79-00-5	_	0	_
246	1,1,2,2-Tetrachloroethane	79-34-5	_	0	_
247	1,1,1,2-Tetrachloroethane	630-20-6	_	0	
_	Pentachloroethane	76-01-7	_	0	
249	1,1-Dichloroethene	75-35-4	_	0	
	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids				
250	category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3,	_	_	0	_
	pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI				
251	to Regulation (EC) No 1272/2008 or not Hexachloroethane	67-72-1		0	
_	Azocolourants and Azodyes	— —		0	
_	Diphenylether, octabromo derivative C12H2Br8O	_		0	
_	Nonylphenol C6H4(OH)C9H19	25154-52-3		0	
_	Nonylphenol ethoxylates (C2H4O)nC15H24O	-	_	0	
	Chromium VI compounds	_	_	0	
	Toluene	108-88-3	_	0	_
258	Trichlorobenzene	120-82-1	_	0	_
259	Polycyclic-aromatic hydrocarbons (PAH)	-	_	0	_
	The following phthalates (or other CAS and EC numbers covering the substance) (See group members)	1	-	0	-
	Di-isononyl phthalate (DINP)	28553-12-0		0	-
260	or isotronyi primarate (onvi)	68515-48-0	_	0	_
200	Di-isodecyl phthalate (DIDP)	26761-40-0	_	0	-
		68515-49-1	_	0	_
	Di-n-octyl phthalate (DNOP)	117-84-0	_	0	
	2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	_	0	
262	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	_	0	
	Methylenediphenyl diisocyanate (MDI) including the following specific isomers	26447-40-5	_	0	
263		101-68-8			
	2,4'-Methylenediphenyl diisocyanate 2,2'-Methylenediphenyl diisocyanate	5873-54-1 2536-05-2		0	
264	Cyclohexane	110-82-7		0	
_	Ammonium nitrate (AN)	6484-52-2	_	0	
_	Dichloromethane	75-09-2	_	0	_
_	Dimethylfumarate (DMF)	624-49-7	_	0	_
	Phenylmercury acetate	62-38-4	_	0	_
1	Phenylmercury propionate	103-27-5	_	0	_
268	Phenylmercury 2-ethylhexanoate	13302-00-6	_	0	_
1	Phenylmercury octanoate	13864-38-5	_	0	
	Phenylmercury neodecanoate	26545-49-3	_	0	_
	Lead and its compounds	_	_	0	_
_	1,4-Dichlorobenzene	106-46-7	_	0	_
	Inorganic ammonium salts	_	_	0	_
	Perfluorooctanoic acid and its salts	_	_	0	
273	Methanol (7.1)	67-56-1	_	0	_
274	Octamethylcyclotetrasiloxane (D4)	_	_	0	_
<u> </u>	Decamethylcyclopentasiloxane (D5) The following substances which are classified as carcinogenic, mutagenic or toxic for reproduction, category 1A or 1B	_		0	
275	(See group members)	_	_	0	_
213	The substances listed in column 1 of the Table in Appendix 12				
	The parameter notes in column 2 of the reals in Appendix 22				

No.	Chemical substances	CAS No ※2	REACH SVHC	REACH Annex XV II	MDR
276	(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silanetriol⊠			0	
270	Any of its mono-, di- or tri-O-(alkyl) derivatives (TDFAs)	_	_		_
277	Diisocyanates⊠O=C=N-R-N=C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length	_	_	0	_
278	Substances in tattoo inks and permanent make up	-	_	0	_
279	Ethanol, 2,2'-iminobis-, N-(C13-15-branched and linear alkyl) derivs.	97925-95-6	-	_	0
280	Cobalt	7440-48-4	-	_	0
281	Acetaldehyde	75-07-0	-	-	0
282	Pyrocatechol	120-80-9	_	-	0
283	Diisohexyl phthalate	71850-09-4	_	_	0
284	losulfuron-methyl (ISO); methyl 3-chloro-5-{[(4,6-dimethoxypyrimidin-2-yl)carbamoyl]sulfamoyl}-1-methyl-1H- rrazole-4-carboxylate		_	-	0
285	Propiconazole; ()-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole	60207-90-1	_	_	0
	Benzo(r,s,t)pentaphene	189-55-9	_	_	0
	Dibenzo[b,def]chrysene	189-64-0	_	_	0
	Beryllium oxide	1304-56-9	_	0	0
	Phenol, 4-dodecyl, branched	210555-94-5	0	0	0
	4-isododecylphenol	27459-10-5	0	_	
	Phenol, 4-isododecyl	7147-75-7	0	_	_
289	Phenol, dodecyl-, branched	121158-58-5	0	0	0
	Phenol, (tetrapropenyl) derivatives	74499-35-7	0	0	0
	Phenol, tetrapropylene	57427-55-1	0		_
	boric acid (H3BO3), sodium salt, hydrate	25747-83-5	0	_	_
	Boric acid (H3BO3), disodium salt	22454-04-2	0	_	_
	Trisodium orthoborate	14312-40-4	0	_	_
290	Boric acid, sodium salt	1333-73-9	0	_	_
	Orthoboric acid, sodium salt	13840-56-7	0	0	0
	Boric acid (H3BO3), sodium salt (1:1)	14890-53-0	0	_	_
	Alkanes, C14-16, chloro	1372804-76-6	0	_	_
001	Alkanes, C14-17, chloro	85535-85-9	0	_	_
291	di-, tri- and tetrachlorotetradecane	_	0	_	_
	Tetradecane, chloro derivs.	198840-65-2	0	_	_
292	glutaral	111-30-8	0	_	_
293	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0	_	_
	(2R)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-31-3	0	_	_
294	2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	0	_	0
	(2S)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-30-2	0	_	_
	3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	1522-92-5	0	_	_
007	2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)	36483-57-5	0	_	_
295	2,2-bis(bromomethyl)propane-1,3-diol (BMP)	3296-90-0	0	_	0
	2,3-dibromo-1-propanol (2,3-DBPA)	96-13-9	0	0	0
296	1,4-dioxane	123-91-1	0	_	_

■ Other than Candidate substances for authorization under REACH and MDR

No.	Chemical substances	CAS No ※2	REACH SVHC	REACH Annex XV II	MDR
1	Polyvinyl chloride (PVC)	9002-86-2	_	_	_
2	Perchlorate	_	-	_	_
3	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	-	_	_	_

Table-				Date :
To Na	kanishi Inc.	Declaration of Non-Use of F	Prohibited Sul	hetances
		Decial acion of 14011 Ose of F	Torribited Su	<u>ostances</u>
				Signature :
	Nakanishi Product Number			Print Name :
				Job Title :
				Company Name :
	☐RoHS Directive 2011/65/EU,(EU)2015/8	63 (Place a check if applicable.)		Address :
				Telephone No. :
				Fax No.
		ALA MOKAMAN AND AND AND AND AND AND AND AND AND A		
	· · · · · · · · · · · · · · · · · · ·	s that we deliver to NSK use no prohibited subst	tance, defined belov	w, if any, below the threshold,
or ex	empt in accordance with NSK Procurem	ent Guidelines.		
■ F	U RoHS Directive			
No	化学物質名	Chemical substances	CAS No	含有濃度の閾値[Threshold level]
1	カドミウム及びその化合物	Cadmium and its compounds	_	100ppm以下 (100ppm or less)
2	鉛およびその化合物	Lead and its compounds	_	1000ppm以下(1000ppm or less)
3	水銀及びその化合物	Mercury and its compounds		1000ppm以下(1000ppm or less)
4	六価クロム化合物	Hexavalent chromium compounds		1000ppm以下(1000ppm or less)
5	ポリ臭化ビフェニール類(PBB類)	Polybrominated biphenyls (PBBs)	-	1000ppm以下(1000ppm or less)
6	ポリ臭化ジフェニルエーテル類(PBDE類)	Polybrominated diphenyl ethers (PBDEs)	=	1000ppm以下(1000ppm or less)
7	フタル酸-2-エチルヘキシル(DEHP)	Bis (2-ethylhexyl) phthalate	_	1000ppm以下 (1000ppm or less) ※電気/電子製品以外を除く
	フタル酸 Z エテルバインル(DENF)	bis (2 ethylnexyl) prichalace	_	(Except for non-electrical and electronic equipment)
8	フタル酸ブチルベンジル(BBP)	Butyl benzyl phthalate	_	1000ppm以下 (1000ppm or less) ※電気/電子製品以外を除く
8	フタル酸フテルベンシル(BBP)	butyi benzyi phthalate	_	次电式/ 电子製品以外で体へ (Except for non-electrical and electronic equipment)
	フタル酸ジプチル(DBP)	D' - 1 1 1 1 1 .	_	1000ppm以下 (1000ppm or less) ※電気/電子製品以外を除く
9	プタル酸ンプチル(DBP)	Dibutyl phthalate	-	※电式/ 电子製品以外を除く (Except for non-electrical and electronic equipment)
	- Lu TAX (1 - T cu (0 100))	20		1000ppm以下(1000ppm or less)
10	フタル酸ジイソブチル(DIBP)	Diisobutyl phthalate	=	※電気/電子製品以外を除く (Except for non-electrical and electronic equipment)
	IS exemption			
		nat permit the inclusion of prohibited substances for us has two types of lists: AnnexIII and AnnexIV.	se that cannot be tec	nnically substituted.
		hat prohibited substances do not contain more than th	ne allowable amount.	

■ Toxic Substances Control Act (TSCA) substances

11	りん酸トリス(イソプロピルフェニル(PIP/PIP(3:1))	Phenol,Isopropylated Phosphate (3:1) (PIP 3:1)	68937-41-7	使用禁止(Prohibition of use)
12	DecaBDE-デカブロモジフェニルエ ー テル(DBDE)	Decabromodiphenyl (DBDE)	1163-19-5	使用禁止 (Prohibition of use)
13	ヘキサクロロブタジエン(HCBD)	Hexachlorobutadiene (HCBD)	87-68-3	使用禁止 (Prohibition of use)
14	ペンタクロロチオフェノール(PCTP)	Pentachlorothiophenol (PCTP)	133-49-3	10000ppm以下(10000ppm or less)
15	2,4,6-トリス(tert-ブチル)フェノ ー ル(TTBP)	2,4,6-tris(tert-butyl)phenol (TTBP)	732-26-3	3000ppm以下(3000ppm or less)

U.S. TSCA exclusions and exemptions
U.S. TSCA exclusions and exemp

16	アスベスト類	Asbestos	-	意図的な使用禁止かつ、1000ppm以下 Intentional use is prohibited, however,1000ppm or less as tin
17	有機錫化合物:トリブチル錫類(TBT) トリフェニル錫類(TPT)	Tributyl Tin (TBT) and Triphenyl Tin (TPT)	-	意図的な使用禁止かつ、スズとして1000ppm以下 Intentional use is prohibited, however,1000ppm or less as tin
18	ジブチルスズ化合物(DBT類) ジオクチルスズ化合物(DOT類)	Dibutyltin (DBT) compounds Dioctyltin (DOT) compounds	-	スズとして1000ppm以下(1000ppm or less as tin)
19	有機錫化合物:酸化トリブチル錫類(TBTO)	Bis(tributyltin)oxide (TBTO)	56-35-9	意図的な使用禁止(Intentional use is prohibited)
20	デカ ー BDE	Deca-BDE	1163-19-5	意図的な使用禁止(Intentional use is prohibited)
21	ポリ塩化ビフェニル類(PCB類)	Polychlorinated Biphenyls (PCBs)	-	意図的な使用禁止(Intentional use is prohibited)
22	ポリ塩化ターフェニル類(PCT類)	Polychlorinated Terphenyls(PCTs)	61788-33-8	意図的な使用禁止かつ、50ppm以下 〈「Intentional use is prohibited, however,50ppm or less as tin〉
23	ポリ塩化ナフタレン類(塩素数が2以上)	Polychlorinated naphthalenes (more than $\underline{2}$ chlorine atoms)	-	意図的な使用禁止(Intentional use is prohibited)
24	短鎖型塩化パラフィン	Alkanes, C10–13, ch l oro	-	意図的な使用禁止かつ、1000ppm以下 (Intentional use is prohibited, however,1000ppm or less as tin)
25	特定アミンを生成するアゾ染料・顔料	Azocolourants and azodyes which form certain aromatic amines	-	意図的な使用禁止かつ、30ppm以下 (Intentional use is prohibited, however,30ppm or less as tin)
26	オゾン層破壊物質(HCFCを除く)	Ozone Depleting Substances	-	意図的な使用禁止(Intentional use is prohibited)
27	PFOS(パーフルオロオクタンスルホン酸)	Perfluorooctane sulfonates	-	意図的な使用禁止かつ、1000ppm以下 (Intentional use is prohibited, however,1000ppm or less as tin)
28	PFOA(ベルフルオロオクタン酸)	Perfluorooctanoic acid	-	意図的な使用禁止かつ、1ppm以下 (Intentional use is prohibited, however,1ppm or less as tin)
29	フッ素系温室効果ガス(HFC、PFC、SF6)	Fluorinated greenhouse gases (PFC, SF6, HFC)	-	意図的な使用禁止(Intentional use is prohibited)
30	HCB(ヘキサクロロヘ`ンセ"ン)	Hexachlorobenzene	-	意図的な使用禁止(Intentional use is prohibited)
31	放射性物質	Redioactive substances	-	意図的な使用禁止(Intentional use is prohibited)
32	特定ベンゾトリアゾール (第一種特定化学物質)	Specified benzotriazole	3846-71-7	意図的な使用禁止(Intentional use is prohibited)
33	ジメチルフマレート(DMF)	Dimethyl fumarate	624-49-7	意図的な使用禁止かつ、0.1ppm以下 (Intentional use is prohibited, however,0.1ppm or less as tin)
34	ホルムアルデヒド	Formaldehyde	50-00-0	意図的な使用禁止かつ、75ppm以下 (Intentional use is prohibited, however,75ppm or less as tin)

Remarks: You can use the box below for your comments.	Nakanishi Inc. Confirmation Column				
		RoHSa		Valification	Confirmation
	1				
	Judgment	RoHSb			
		RoHSc			
	chemSH informa		Yes . No		