

THE NEW VALUE FRONTIER



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**Guideline on Environmentally Hazardous  
Substances of Connector Products Division,  
Corporate Electronic Parts Group, KYOCERA  
Corporation**

**26th Edition**

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## Revision record

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1	Aug. 1, 2005	Initial release				Hata		Amano	
2	July 20, 2006	Full-fledged revision due to "Control Procedures for Environmental Hazardous Substances" revised on July 1st, 2006.				Matsuoka		Amano	
3	Sep. 20, 2006	Added the limitation of hazardous substances in Item 3-1.				Matsuoka		Amano	
4	Apr. 20, 2007	Added cautions and management method for molding and assembly processes to Item 4.3.2.				Matsuoka		Amano	
5	July 1, 2007	Attached Notification of acknowledgement as Attachment 6.				Matsuoka		Amano	
6	Aug. 1, 2008	Changed the document name from Guidelines for KYOCERA ELCO Green Procurement to KYOCERA ELCO Green Procurement Standards. Added "shall be identified and indicated." in 2) Material/Sub-materials of 3. Terminology and 1.Management of production process of 4.3.2 Production process.				Matsuoka		Amano	
7	Sept. 1, 2009	Changed values specified for materials prohibited by RoHS regulations				Matsuoka		Amano	
8	Dec. 15, 2008	Changed "Substances prohibited being used in production processes" to "Substances to be controlled" in d) of 3. Terminology. Changed the classification for the specified values to inorganic and organic substances.				Matsuoka		Amano	
9	Feb. 20, 2009	Changed the specified values for prohibited substances in 3. Terminology.				Matsuoka		Amano	
10	Mar. 10, 2009	Added quantitative analysis in 3. Terminology. Added "Chlorinated cobalt" to substances of which inclusion is prohibited, and etc.				Matsuoka		Amano	
11	Nov.12, 2009	Changed values specified for prohibited substances in 3. Terminology.				Matsuoka		Amano	
12	Feb.1, 2010	Added "G-44" to "G-50" to substances of which inclusion is prohibited. Reviewed the due dates of abolishment for substances to be abolished.				Matsuoka	Amano	Sato	

13	June.1, 2010	<p>Added "G-32 (Ozone depleting substances (excluding HCFC)) are not used in the production process." in 3.</p> <p>Added "G-51" to "G-54" to substances of which inclusion is prohibited.</p> <p>"G-5" and "G-6" were deleted because they are included in "G-51".</p> <p>Attached "Azo dye and pigment list" as Attachment 1-3.</p> <p>Attached "Ozone depleting substances (Substances targeted in Montreal Protocol) list" as Attachment 1-4.</p> <p>Attached "Specific organic tin compound list" as Attachment 1-5.</p> <p>Attached "DBT and DOT (organostannic) compound list" as Attachment 1-6.</p> <p>Added control standard values for substances regulated as Halogen-free substances in 3.</p>	Matsuoka	Amano	Sato
14	April 1, 2012	<p>Changed the company name to KYOCERA Connector Products Corporation..</p>	Matsuoka	Sakuma	Sato
15	July 1, 2012	<p>"3. Terminology"</p> <p>1) Added declarable substances in Environmentally hazardous substances, added exemptions regarding lead and specification values for XRF measurement and reviewed definition of halogen-free.</p> <p>2) Added molding materials, stamping materials, wires, reclaimed materials, recycled materials and paintings in "Material/Sub-materials".</p> <p>3) Added recommended analysis laboratory and analysis method for antimony and phthalate esters in Quantitative analysis.</p> <p>"4.1 Certificate of containing none of environmentally hazardous substances".</p> <p>Added requirements for REACH SVHC and other requirements for other survey data and information.</p> <p>"4.2 Deliberables"</p> <p>Added an item requiring survey of REACH SVHC and other surveys for environmentally hazardous substances.</p> <p>"4.3.1 in 4.3 Control in the manufacturing process"</p> <p>1. Added requirements for XRF measurements.</p> <p>2. Added requirements for XRF measurements in handling nonconformance detected in the acceptance inspection.</p> <p>3. Corrected partially</p> <p>"4.4 Identifying management"</p> <p>Added requirements for identification control on halogen-free articles.</p> <p>"4.5 Shipping inspection"</p> <p>Added requirements for XRF measurement.</p> <p>"4.6 Records retention"</p> <p>Changed the retention time of quality records to 11 years.</p>	Matsuoka	Sakuma	Sato

16	June 25,2014	<p>Revision due to reviewing the document architecture</p> <ul style="list-style-type: none"> <li>- Changed the document number according to the change of the document number of the higher document</li> <li>"3. Terminology"</li> <li>1) List of environmentally hazardous substances</li> <li>Changed the specified values of six prohibited substances stipulated in RoHS Directive</li> <li>Changed the description for XRF measurement</li> <li>Added Denmark's restriction on four phthalate esters</li> <li>"4.1 Certificate of containing none of environmentally hazardous substances"</li> <li>Partly corrected the description for submitting the analysis data</li> <li>"4.3.2 Manufacturing process"</li> <li>Added the stamping out &amp; plating processes in "1. Control of the manufacturing process"</li> <li>"5 Where to call"</li> <li>Changed the person in charge of contact</li> </ul>	Matsuoka	Sakuma	Sato
17	June 23, 2015	<p>"3. Terminology"</p> <ul style="list-style-type: none"> <li>Added the specified value of beryllium</li> <li>Added the beryllium measuring method to "3) Precise analysis"</li> <li>Added "Attachment 6: List of applicable major laws &amp; regulations"</li> </ul>	Matsuoka	Sakuma	Sato
18	Dec. 8, 2015	<p>"3. Terminology"</p> <ul style="list-style-type: none"> <li>Added the specified value of antimony trioxide</li> <li>Changed the Z-1 and Z-2 substances in "Substances to be abolished" to reportable substances.</li> </ul>	Matsuoka	Sakuma	Sato
19	Apr. 21, 2016	<p>"3. Terminology"</p> <ul style="list-style-type: none"> <li>Specified the value of mercury and Hexavalent chrome among RoHS six restricted substances</li> <li>"4.1 Certificate of containing none of environmentally hazardous substances"</li> <li>Added statements regarding MSDS data</li> <li>"4.2 Documents to be submitted"</li> <li>Added statements regarding MSDS data</li> </ul>	Matsuoka	Sawada	Sato
20	Apr. 17, 2018	<p>"3. Terminology"</p> <ul style="list-style-type: none"> <li>Change the value of PBB and PBDE among RoHS 6 restricted substances</li> <li>Added a sentence about phthalate esters due to RoHS2</li> <li>"4.1 Certificate of containing none of environmentally hazardous substances"</li> <li>Added "3. Four phthalate esters (DEHP, DIBP, DBP, BBP)"</li> <li>Added "4. Beryllium, antimony"</li> </ul>	Matsuoka	Kitagawa	Sato

21	April 1, 2017	Revised to the new title "Guideline on Environmentally Hazardous Substances" along with merger of our company to Kyocera Corporation and change of the organization name (New name: Connector Products Division, Corporate Electronic Parts Group, KYOCERA Corporation)	Kawamoto	Kawamura	Sato
22	Aug. 25, 2017	Partly changed "Kyocera Environmental Charter (Excerpt)" along with integration into Kyocera Corporation, added e) through h) in "Terminology". Changed MSDS to SDS and added chemSHERPA as environmental evidence. "4. When any change is caused in materials/sub-materials used in the supplier's manufacturing process " in "4.2.2 Time to Submit" Changed "Notification of change in production condition" to "4M change application". Changed "2. Management of second-tier suppliers" in "4.7 Others" to "2. Communication to second-tier suppliers", and added the description accordingly.	Kawamoto	Kawamura	Sakuma
23	Apr. 20, 2018	"3. Terminology" Added substances, pre-treatments, and methods to detect to "(3) Precise analysis". Added a sentence "": Upon request of some of our customers, suppliers of cleaning agents, oily detergents, and/or release agents should analyze Benzene, Chlorinated Organic Solvents, n-Hexane, N-Methylpyrrolidone (NMP), Toluene.."	Takao	Kawamura	Sato
24	Nov.20, 2018	"3. Terminology" i) Threshold value Changed the values for PBBs and PBDEs. Added substance, pre-treatment, and method to detect for "n-Propyl bromide" to "(3) Precise analysis". Changed the survey formats for SVHCs from AIS and MSDSplu to chemSHERPA of "6. Substances of Very High Concern (SVHC) in REACH Regulations " in "4.1 Certificate of containing none of environmentally hazardous substances" and of "5. Substances of Very High Concern (SVHC) in REACH Regulations" in "4.2 Deliverables". "5. Where to call about what mentioned in this document;" Changed the name and the E-mail address of the person in charge. "Attachment 1: List of Environmentally Hazardous Substances " -Added substances of G-203 to G-223 to substances not to be contained. - Added substances of Z-15 to Z-21 to substance to be abolished. -Added substances of the 17th through 19th update of REACH Candidate List.	Takao	Kawamura	Isibashi

			Approval	Check		Preparation
25	Feb.3,2022	<p>Changed the environmental charter (excerpt) to an environmental safety policy  Deleted AIS, MSDSplus, JGPSSI, changed JAMA sheet to JAPIA unified sheet  "3. Terminology"  Changed to G-16 ozone depleting substance (including HCFC), I) Threshold: Added control value of less than 300ppm for phthalates.  "Attachment 1:  List of Environmentally Hazardous Substances "  -Added substances of G-224 to G-232 to substances not to be contained. "(G-15) 60-90-3 ⇒ 60-09-3" error correction.  -Added substances of the 20th through 25th update of REACH Candidate List.</p>	Shibata	Yamane	Sato	Sakuma
26	Sep.13,2022	<p>3.Definition of terms  a) Addition of prohibited substances to the list of prohibited substances  i) Add less than 10 ppm for each PBDE substance alone to the threshold  "Attachment 1:  List of Environmentally Hazardous Substances "  • Added G-223, G-230, G-234~238, K-95, R-175~176</p>	Shibata	Yamane	Sato	Sakuma

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Attachment 1: List of Environmentally Hazardous Substances

Attachment 2: Certificate of non-use of environmentally hazardous substances

Attachment 3: List of purchased parts, materials, and sub-materials

Attachment 4: Control of RoHS-Restricted Substances Contained in the Plating Solution  
(For plating subcontractors only)

Attachment 5: Voucher for Delivery and Receipt for Guideline on Environmentally Hazardous Substances of Connector Products Division, Corporate Electronic Parts Group, KYOCERA Corporation

Attachment 6: List of applicable major laws & regulations

## Preface

Since its foundation, Kyocera has carried out activities based on its corporate motto “Respect the Divine and Love People” and its management rationale “Contribute to the Advancement of Society and Humankind While Pursuing the Material and Spiritual Happiness of All Employees.”

Adhering to this management attitude, Kyocera and its domestic and foreign affiliates have promoted the development and commercialization of solar cells and other products that contribute to global environmental preservation. Additionally, the Kyocera group has undertaken other active efforts for environmental preservation, including environmental management at its plants to reduce damage to the natural environment and adverse influences on the ecosystem.

In August 1998, Kyocera commenced efforts on the framework of its green procurement, which involves the selection of products to be procured on the basis of consideration of environmental issues. This move was due to our judgment that in order to reduce the environmental impact associated with our products, we needed to reduce such impacts attributed to parts built into the products, as well as materials procured by us.

In December of the same year, we published our Guideline on Green Procurement, which outlines our approach to green procurement, our related requests to suppliers, and other relevant matters. Based on the Guideline, we have been successfully carrying out green procurement activities, thanks to the understanding and cooperation of our business partners.

In our "Green Supplier Certification System" that began in 2008, we believe that our concept of environmentally hazardous substance management activities has been well understood.

We have divided our conventional “Kyocera Green Procurement Guideline” into two and established guidelines “Kyocera Guideline on Environmentally Hazardous Substances” that specifies the standards for product specifications for promoting green procurement and “Kyocera Guideline on Environmental Protection Activities (for Partners)” that describes the guiding principles for Kyocera’s idea of environmental protection activities.

Nowadays, legal regulations on environmental affairs as well as growing public demand for environmental protection have been more and more strengthened. We need cooperation of our business partners for complying with their requirements.

Accordingly, we ask for your understanding of the purposes of these activities, as well as your cooperation in this regard.



## Kyocera Group Environmental safety policy

The Kyocera Group has put in place the Kyocera Group Environmental Safety Policy, which combines policies on the environment and safety and sanitation, including providing products that contribute to the global environment and contributing to a sustainable society, to promote comprehensive measures for environmental safety based on its management rationale in conducting business activities. Business activities covered by the policies below include business expansion via M&A, where we carry out due diligence to identify potential environmental risks and reflect that in post-acquisition improvement plans.

- 1 . Compliance with laws and other regulations
  - Kyocera will comply with laws, agreements, and internal standards regarding the environment and work safety.
- 2 . Provide products that contribute to the global environment
  - Kyocera will increase research and development of products that make a positive contribution to the enhancement of the global environment and minimize environmental impact at all stages of the product life cycle; and the Company will strive to spread the use of such products.
- 3 . Contribute to a sustainable society
  - Kyocera will promote greenhouse gas emission control in the entire value chain to contribute to the realization of a carbon-free society.
  - Kyocera will contribute to the realization of a society with sustainable recycling of resources by purchasing resources with low environmental impact, reducing the volume of new resource consumption, and minimizing waste.
  - Kyocera will strive to prevent environmental pollution by properly managing chemical substances in all processes.
  - Kyocera will advance conservation of biodiversity by minimizing negative impacts on the natural environment, as well as by protecting and nurturing the natural environment.
- 4 . Ensure employee health and safety and prevent accidents and disasters
  - Kyocera aims to build a corporate culture that creates an accident-free and disaster-free workplace environment where everyone can work safely and with peace of mind.
  - Kyocera will conduct risk assessments and reduce occupational health and safety risks by eliminating sources of danger in order to prevent workplace accidents and disasters.
  - Kyocera strives to build a work environment where employees feel healthy, enjoy job satisfaction and can reach their maximum potential by promoting mental and physical health.
- 5 . Conduct stakeholder communication
  - Kyocera will support Corporate Social Responsibility (CSR) activities and communicate with various stakeholders.
- 6 . Operation of an environmental and safety management system
  - In the course of business activities, through operation of the management system, the Kyocera Group will proactively promote comprehensive measures for environmental protection and work safety, based on the management rationale, and continuously improve environmental and safety performance.

## **“Green Procurement” activities in Connector Products Division, Corporate Electronic Parts Group, KYOCERA Corporation**

Connector Products Division of Corporate Electronic Parts Group in KYOCERA Corporation is promoting to procure materials and sub-materials that are environment-friendly and ask suppliers for their cooperation based on “Guideline on Environmentally Hazardous Substances.”

The following three points are specified in “Guideline on Environmentally Hazardous Substances” to promote the activities.

### **1. Basic concept of Green Procurement**

Connector Products Division, Corporate Electronic Parts Group, KYOCERA Corporation is promoting to purchase and use materials according to the concept of “To determine the specification for materials in purchasing, and to select and procure materials so that environmental impact could be reduced in every phase such as production, distribution, use and discard.”

### **2. Investigation of the situation of environment conservation activities in suppliers and environmental audit for them**

Suppliers’ situation of obtaining ISO14001, environmental controlling, or so are regularly subjected to our investigation. As a result of the investigation, requirements will be distributed to customers who are regarded as ones that require improvement in their environmental control, and their environment will be audited as needed.

### **3. Control of chemical substances included in purchased items**

All of purchased items such as products, parts, materials, packaging materials and other sub-materials shall be subjected to our confirmation for inclusion of prohibited substances by making arrangements such as obtaining environmental materials such as SDS, ICP, JAPIA sheet, IMDS, and chemSHERPA and Certificate of non-use of environmentally hazardous substances. And then only items that do not contain prohibited substances will be purchased by us.

## 1. Purpose

“To procure products and services that have lesser impact on environment from suppliers who are aggressively striving for activities of environment conservation” is regarded as the green procurement by us. In order to achieve the concept, suppliers and their products to be purchased by us will be investigated for their activities of environment conservation and environmental considerations on products, and suppliers who are striving and vigorously adopting ecological system for global environment will be made an engagement with us preferentially.

With putting this Guideline into effect, we, Connector Products Division, would like to supply products that contribute to improve the global environment and that can reduce environmental impact in every phase such as production, sales, distribution, use and discard. Also we are aiming for “Zero non-conformity of containing environmentally hazardous substances”.

We would ask for your vigorous cooperation based on this Guideline.

## 2. Scope

Materials, parts, and assemblies that are ordered by us, Connector Products Division, for connector production, and materials/sub-materials that are used in manufacturing processes for aforementioned objects. (For materials and sub-materials in details, see “2) Material/Sub-materials” in “3. Terminology” below.)

As for materials/sub-materials, however, those that can be removed by cleaning or so in the process are excluded from here, while only those that have a possibility of being residual substances in materials, parts, and assemblies that will be delivered to us are the target.

## 3. Terminology

1) List of environmentally hazardous substances (Attachment 1.)

a) Prohibited substances: G-1 and later

Substances that should not be contained in parts and products. In addition, the use of G-16 ozone depleting substances (including HCFC) and the following substances in the manufacturing process is also prohibited. G-38, G-67, G-68, G-103, G-104, G-107, G-154, G-180, G-181, G-186, G-188. (Refrigerant or fire extinguishing use is not applicable)

b) Abolished substances: Z-1 and later

Substances that should not be included in parts/products after due date of the abolishment.

Only if it is found that an alternative substance to be used is determined technologically, using the substance to be abolished shall be banned before the due date.

If there is no alternatives and use of the abolished substance is approved as an exemption by laws or regulations, the due date shall be reviewed.

c) Substances to be controlled: K-1 and later

Substances of which content shall be comprehended and controlled.

d) Declarable substances: R-1 and later

Substances to be comprehended, controlled and reported when there is a possibility of being contained in or attached to products.

e) Intentional use:

Manufacturers intentionally add environmentally hazardous substances and/or use materials to which such substances are added in order to make the basic raw materials as ingredients, performance and functions suitable for the purpose and to maintain conditions and such during process.

f) Contain

The followings are regarded as "contain":

(1) Whether intentionally or not, to contain chemical substances as ingredients or contents in parts, materials, or products.

(2) To add chemical substances in the production process in order to keep process conditions, quality, and such, which results in parts, materials, and products containing such substances.

- (3) To use chemical substances in the production process and they are remained in or adhered to final products or parts, materials, or products.  
 Chemical substances contained in natural materials or residues after refining industrial process are also construed as "contain" (impurities). Provided, however, that it is not regarded as "contain" when there is no technical predictive values or information on contents unless containing such substances is against laws and/or regulations in Japan or other countries.

g) Impurity

The followings are regarded as "impurity/impurities":

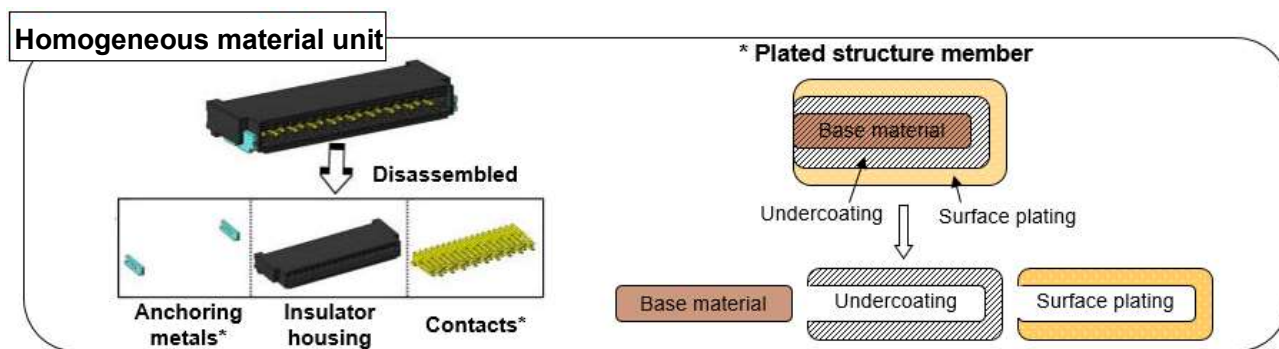
- (1) Substances which are contained as industrial material in a natural raw material and cannot be removed completely through existing technology in the refining processes
- (2) Substances generated through synthetic reaction processes, which could not be completely removed through existing technology

h) Structure member (Object member)

Means "material unit considered homogeneous" containing chemical substances.

Object member means structure members in constituents of a part that contains target chemical substances of the survey.

<Denotation example of structure member: Connector>



i) Threshold value

Boundary value of the content concentration

The followings are the limitation of six (6) substances that are prohibited to be included in products by RoHS Directive unless otherwise included intentionally.

If any of our customer specifies the value other than those mentioned below, the customer's one shall prevail.

Substances	Organic material (Plastic, Paint, Ink)	Inorganic material (Metals, Others)
1. Cadmium & its compounds	Less than 5 ppm	Less than 50 ppm
2. Leads & its compounds (*1)	Less than 50 ppm	Less than 500 ppm
3. Mercury & its compounds	Less than 5 ppm	Less than 5 ppm
4. Hexavalent chrome compounds	Less than 5 ppm	Less than 5 ppm
5. PBBs	Less than 100 ppm	Less than 300 ppm
6. PBDEs	Less than 100 ppm	Less than 300 ppm

※The specified value for each single substance of PBDEs shall be less than 10ppm.

As for alloys (such as free-cutting brass stick) in which intentional usage of lead is detectable among materials specified in drawings by us, the followings are the allowable concentration.

(\* 1) Allowable concentration of various alloys

Alloy	Allowable concentration of lead
Steel	0.35wt% or less
Aluminum base alloy	0.4wt% or less
Copper alloy (Including brass and phosphor bronze)	4wt% or less

When being required of halogen-free products, the followings are the limitation of two substances. If any of our customer specifies the values other than those mentioned below, the customer's value shall prevail.

Substance	Specified value
1. Bromine (Br)	Less than 700ppm
2. Chlorine (Cl)	Less than 700ppm
3. Bromine (Br) + Chlorine (Cl)	Less than 1300ppm

When a screening inspection is performed through XRF measurement, the following conditions shall be satisfied.

<Conditions>

- |   |
|---|
| <p>(1) Determine the control method (e.g. measuring method, control value, measurement frequency, etc.) in consideration of error (accuracy) of the measurement.</p> <p>(2) Establish the control method so that the specified values of precise analysis would never be exceeded.</p> <p>(3) Keep the evidence of the control method mentioned above to demonstrate there is no problem in it.</p> <p>➤ Errors shall include errors of instrument itself, errors arising from a measurer, or environment-oriented errors and so on. If a measured value is beyond the specified value, please do a precise analysis.</p> |
|---|

#### Phthalate esters

From July 22, 2019, four (4) phthalate esters, DEHP, DIBP, DBP and BBP, will be added as restricted substances in EU RoHS directives.

Products containing more than 0.1wt% of any of four (4) phthalate esters (DEHP, DBP, DIBP or BBP) are banned from being imported and sold. Because phthalate esters may be transcribed by prolonged contact or pressure, they may be attached by mistake under the same concept as conventional prohibited substances in RoHS Directive. Materials, therefore, containing any of such should be eliminated from processes in principle. Less than 300ppm if cannot be excluded from the process Please manage with.

Substance	Specified value	CAS No.	Description
DEHP	Less than 0.1wt%	117-81-7	Bis(2-ethylhexyl) Phthalate
DIBP	Less than 0.1wt%	84-69-5	Diisobutyl Phthalate
DBP	Less than 0.1wt%	84-74-2	Dibutyl Phthalate
BBP	Less than 0.1wt%	85-68-7	Benzyl Butyl Phthalate

If it is required to regulate the use of beryllium, the value shown below shall be specified.

Substance	Specified value
Beryllium	Less than 1000ppm

If it is required to regulate the use of antimony trioxide, the value shown below shall be specified.

Substance	Specified value
Antimony trioxide	Less than 700ppm

## 2) Material/Sub-materials

The following materials/sub-materials shall be identified if they are compliant to the control for environmentally hazardous substance or not, and be indicated accordingly.

- a) Liquid used in the plating process (Waste fluid included)
- b) Materials and/or components of equipment or jigs that contacts parts and/or products directly (Suction nozzle, conveyer lane, and etc.)
- c) Chemicals, oils and etc. used for cleaning and maintenance of equipment
- d) Molding materials, stamping materials
- e) Wires
- f) Reclaimed materials, recycle materials
- g) Inks and etc. for marking
- h) Paintings
- i) Adhesive agents and etc.
- j) Packing materials
- k) Others that have possibilities to touch products directly in the manufacturing process (such as green mats, fingerstalls)
- l) Parts procured by suppliers themselves (Nuts, screws and etc.)
- m) Fluxes and cleaners used in soldering process

## 3) Precise analysis

This is a method that aims the accurate quantitative determination in order to prove the content of substances marked with “\*” in the List of environmentally hazardous substances in Attachment 1. Please refer to Table 1 for analysis method. Any third party analysis institute, such as SGS and TUV SUD, IAS, obtaining ISO/IEC17025 shall do the precise analysis.

Table 1

Substance	Pre-treatment	Method to detect
Cadmium Lead, mercury *Total chromium	IEC62321, EN13346:2000 US EPA 3052/3050B	Inductively coupled plasma atomic emission spectroscopy [(ICP-AES) (ICP-OES)] Atomic Absorption Spectrometry (AAS) Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)
*Hexavalent chrome	IEC:62321	Diphenylcarbazine spectrophotometric method (UV-VIS)
PBB/PBDB	IEC:62321	GC-MS chemical analysis
Bromin, Chlorine	IEC:62321-3-2 EN14582、ASTM D7359	Ion chromatography analysis
Antimony	EPA3052、IEC:62321	Inductively coupled plasma atomic emission spectroscopy [(ICP-AES) (ICP-OES)]
Phthalic acid, Esters	IEC:62321、EPA8061A	GC-MS chemical analysis
Beryllium	IEC:62321 US EPA 3052/ 3050B	Inductively coupled plasma atomic emission spectroscopy [(ICP-AES) (ICP-OES)]
Benzene	IEC:62321:2008	Solvent extraction, analyzed by GC-MS or HPLC-MS
Chlorinated Organic Solvents	IEC:62321:2008	Solvent extraction, analyzed by GC-MS or HPLC-MS; or EN 14582 for total chlorine
n-Hexane	IEC:62321:2008	Solvent extraction, analyzed by GC-MS or HPLC-MS
N-Methylpyrrolidone (NMP)	IEC:62321:2008	Solvent extraction, analyzed by GC-MS or HPLC-MS

Toluene	IEC:62321:2008	Solvent extraction, analyzed by GC-MS or HPLC-MS
n-Propyl bromide	IEC:62321:2008	Solvent extraction, analyzed by GC-MS or HPLC-MS, or EN14582 for bromines in total.

\*: Although this aims to measure the content of hexavalent chrome, it is assured that the content of hexavalent chrome is not beyond the specified value by verifying that the measured value of total chromium is not beyond the specified value of the hexavalent chrome.

\*: It may be required by some customers to analyze beryllium and/or antimony.

\*: Upon request of some of our customers, suppliers of cleaning agents, oil detergents, and/or release agents should analyze Benzene, Chlorinated Organic Solvents, n-Hexane, N-Methylpyrrolidone (NMP), Toluene.

#### 4. Requests to suppliers

Understanding and cooperation from suppliers are vital to promote our green procurement project. What mentioned in 4.1 through 4.7 in this document are our requests.

##### 4.1 Certificate of containing none of environmentally hazardous substances

It shall be verified with the following procedures that environmentally hazardous substances are not contained in materials/sub-materials used in materials, parts of connectors and products that are delivered to us and their manufacturing processes.

The latest version of SDS data of materials/sub-materials shall be always kept. The SDS data shall be reviewed at least once in a half year. If it is necessary to revise the SDS data as a result of the review, it shall be revised and then the revised one shall be sent to us immediately. If no revised version is sent to us, it is regarded that nothing is revised by you. Analysis data shall be renewed once a year starting from the date of analysis, and be submitted. If it is impossible for you to affirm or renew any analysis data, please notify us so with a document stating your reasons for and comments on non-renewal of the data. Such document shall be also renewed once a year starting from the date on the document, and be submitted.

###### 1. Cadmium, lead, mercury and hexavalent chrome

For materials, parts and assemblies procured by yourself and materials/sub-materials used in processes for their manufacture, it shall be verified through the quantitative analysis that concentration of cadmium, lead, mercury, and hexavalent chrome contained in them is below the specified values.

It shall be assured as cautions in the analysis data that the data shall be; 1) provided with descriptions of pretreatment method and measuring method, (2) provided with the phrase "complete dissolution", (3) provided with the analysis flow, and 4) term of validity of the data is within a year from the date when starting the measurement.

###### 2. PBBs and PBDEs

As for other than metal materials, it shall be verified through the quantitative analysis that concentration of PBBs and/or PBDEs contained in materials, parts and assemblies procured by yourself and materials/sub-materials used in processes to manufacture them is below the specified value.

It shall be assured as cautions in the analysis data that the data shall be; 1) provided with descriptions of pretreatment method and measuring method, (2) provided with the phrase "complete dissolution", (3) provided with the analysis flow, and 4) term of validity of the data is within a year from the date when the measurement starts.

As for metal materials, Certificate of non-use of environmentally hazardous substances shall be obtained by using Attachment 2 from makers of materials, parts and assemblies purchased by you and materials/sub-materials used in processes to manufacture them. The Certificate of non-use of

environmentally hazardous substances obtained from makers shall be an evidence of none of PBBs and/or PBDEs being contained.

Although typically the Certificate of non-use of environmentally hazardous substances obtained from makers of materials, parts, assemblies and materials/sub-materials used in processes to manufacture them shall be an evidence of non-inclusion of PBBs and/or PBDEs as described above, the appropriate action shall be taken by you if the measurement through a GC-MS analytical method is especially required by us due to the request especially made by our customer.

### 3. Four (4) phthalate esters, DEHP, DIBP, DBP and BBP

From July 22, 2019, four (4) phthalate esters, DEHP, DIBP, DBP and BBP, will be added as restricted substances in EU RoHS directives. As for materials, parts, parts, and assemblies purchased by you, and materials and sub-materials used in the processes to manufacture them, it shall be verified through the quantitative analysis that the content of phthalate esters, DEHP, DIBP, DBP and BBP, is under the specified value.

And it shall be assured as cautions in the analysis data that the shall be; 1) provided with descriptions of pretreatment method and measuring method, (2) provided with the phrase "complete dissolution", (3) provided with the analysis flow, and (4) term of validity of the data is within a year from the date when starting the measurement.

### 4. Beryllium and antimony

It may be necessary for some customers to analyze beryllium and antimony.

### 5. Environmentally hazardous substances other than cadmium, lead, mercury, hexavalent chrome, PBBs, and PBDEs

As for all environmentally hazardous substances specified in Attachment 1 other than cadmium, lead, mercury, hexavalent chrome, PBBs, and PBDEs, non-inclusion of them shall be proven on Certificate of non-use of environmentally hazardous substances.

If a measurement is especially required by us due to the request especially made by our customer, an appropriate action shall be taken by you to meet the request.

### 6. Substances of Very High Concern (SVHC) in REACH Regulations

As for Substances of Very High Concern (SVHC) listed in REACH Regulations, inclusion/non-inclusion of them in parts and/or materials/sub-materials that are subject of the verification shall be investigated and verified by using chemSHERPA issued by JAMP (Joint Article Management Promotion-Consortium).

Since any of our customers may request us to use its own method and format, an appropriate measurement and action shall be taken by you if it is required by us to meet our customer's request.

JAMP (Joint Article Management Promotion-Consortium): <http://www.jamp-info.com/>

### 7. Other data and/or documents for survey of environmentally hazardous substances

Since we are requested to do the investigation of environmentally hazardous substances by using a customer's original form and/or format issued and specified by any association or organization such as Japan Green Procurement Survey Standardization Initiative (JGPSSI), Japan Automobile Manufacturers Association (JAMA)/Japan Auto Parts Industries Association (JAPIA), or International Material Data System (IMDS), Joint Article Management Promotion-consortium (JAMP) (chemSHERPA), an appropriate measurement and action shall be taken by you if so is required by us.

Japan Green Procurement Survey Standardization Initiative (JGPSSI) :

[http://www.db1.co.jp/jeita\\_eps/green/greenTOP.html](http://www.db1.co.jp/jeita_eps/green/greenTOP.html)

Japan Automobile Manufacturers Association (JAMA): <http://www.jama.or.jp/>

apan Auto Parts Industries Association (JAPIA): <http://www.japia.or.jp/>



International Material Data System (IMDS):

<http://www.mdsystem.com/magnoliaPublic/ja/public.html>

Joint Article Management Promotion-consortium (chemSHERPA):

<https://chemsherpa.net/chemSHERPA/>

## 4.2 Deliverables

### 4.2.1 Deliverables

1. List of purchased parts, materials/sub-materials

Suppliers who manufacture parts or assemble products shall fill "List of purchased parts, materials, and sub-materials" with purchased parts, materials/sub-materials used in your production process for articles to be delivered to us and submit it. Parts, materials/sub-materials described in the list shall be target parts, materials/sub-materials to be validated in 4.1.

2. Certificate of non-use of environmentally hazardous substances

Based on the result proven in 4.1, Certificate of non-use of environmentally hazardous substances shall be submitted by using the format of Attachment 2. The certificate will be used as grounds of your proof of none of environmentally hazardous substances being contained in parts delivered to us or a destination specified by us, or parts, and/or materials/sub-materials of your procurement.

3. Result of the quantitative analysis

The result of cadmium, lead, mercury, and hexavalent chrome, PBBs, PBDEs, and phthalate esters measured in 4.1 shall be submitted. For measurement methods, refer to Table 1 in "3) Quantitative analysis" in paragraph 3. *Terminology* above, and follow instructions defined in each method.

4. SDS data (Former MSDS)

Based on the verification implemented in 4.1 above, SDS (Safety Data Sheet) shall be submitted. SDS data is a sort of instruction manual for handling chemical products (products using chemical substances) that describes substances contained in chemical products, effects on people and the environment, handling precautions, etc. in order to understand properly the nature of chemical products and handle them safely. Although generally it is not revised unless there is any change in descriptions in the SDS data, any revised one shall be submitted to us immediately when it is reviewed once in half a year and if it is revised.

5. Substances of Very High Concern (SVHC) in REACH Regulations

Suppliers who manufacture parts and/or assemble products shall do the investigation for Substances of Very High Concern (SVHC) in REACH Regulations regarding materials used in parts or products and/or purchased parts, materials, and/or sub-materials that are used in manufacturing process and may attach to products. chemSHERPA, the format issued by Joint Article Management Promotion-Consortium (JAMP), shall be used. (Please obtain any of them through the URL posted in "4.1 Certificate of containing none of environmentally hazardous substances".)

6. Other documents for survey of environmentally hazardous substances

In response to our request, for materials used in parts and/or products; materials, parts, and products used in manufacturing processes; sub-materials having possibility to be contained in products, suppliers who manufacture parts and/or assemble products shall submit the result of investigation by using a customer's original form and/or format issued and specified by any association or organization such as Japan Green Procurement Survey Standardization Initiative (JGPSSI), Japan Automobile Manufacturers Association (JAMA)/Japan Auto Parts Industries Association (JAPIA), or International Material Data System (IMDS). (Please obtain any of them through the URL posted in "4.1 Certificate of containing none of environmentally hazardous substances".)

## 4.2.2 Time to submit

### 1. New suppliers

Prior to starting actual dealings, suppliers who enters into business relations shall submit documents mentioned in 4.2.1.

### 2. Existing suppliers

Our Main Control Section checks if you have already submitted documents required in 4.2.1 or not. If you have not yet submitted them, we will make you a request of submission of such documents, so you shall meet our request.

### 3. Periodically submission

"List of purchased parts, materials, and sub-materials", "Certificate of non-use of environmentally hazardous substances" and "Result of the quantitative analysis" among documents submitted according to Paragraph 4.2.1 will be valid for one year basically. Once documents are submitted, they shall be updated based on the re-verification as per Paragraph 4.1 before the due date.

As for Substances of Very High Concern (SVHC) defined in REACH Regulations, if target substances are added and investigation of such substances are required, we will make you a request of submission of documents accordingly. So investigation shall be done in advance and the documents of the result shall be kept by you.

### 4. When any change is caused in materials/sub-materials used in the supplier's manufacturing process

If any change is caused in the submitted "List of purchased parts, materials, and sub-materials", "4M Change Application" shall be submitted according to Supplier Quality Control Regulations in order to be acknowledged by us prior to implementing the change.

Since it is required in the course of acknowledgement of the change that none of environmentally hazardous substances is included in materials/sub-materials to be changed, documents required in 4.2.1 based on the re-verification mentioned in 4.1 shall be submitted newly again.

### 5. When Guideline on Environmentally Hazardous Substances of Connector Products Division, Corporate Electronic Parts Group, KYOCERA Corporation is revised

The standards (Guideline on Environmentally Hazardous Substances of Connector Products Division, Corporate Electronic Parts Group, KYOCERA Corporation) may be revised according to changes in law, social surroundings, and/or requirements made by customers and such. When it is revised, the revised version will be delivered and at the same time requests to fulfill newly derived requirements for applicable product materials and/or materials/sub-materials will be made by us, then please take necessary actions to meet it. If any requirement that is not compliant with the standards is needed to be required, it will be negotiated separately.

## 4.3 Control in the manufacturing process

### 4.3.1 Acceptance inspection for raw materials and materials/sub-materials, and retrieving and storing materials

#### 1. Procedures of the acceptance inspection

- At the acceptance inspection for raw materials, it shall be made sure that the names of material shown in the drawing and on the identification card are identical.

In order to assure the compliance with RoHS Directive, ICP data or data attached to materials delivered shall be checked to see if the data satisfy the specifications of RoHS Directive.

- Pass or Fail of the data shall be checked on the ICP data on which the part number, the stamp of approved person, the date of analysis (within the period of validity, one year) are filled.

When it is assured that the raw material is compliant with RoHS, the stamp or label showing "RoHS compliant" shall be put on the material for identification purpose.

- At the acceptance inspection for materials/sub-materials, it shall be made sure that the actual materials/sub-materials are identical with the ones in the "List of materials/sub-materials in use"

that has already been submitted after non-inclusion of environmentally hazardous substances is proven.

- At the acceptance inspection for parts, it shall be made sure that the part number of the actual parts and the one shown on the identification card are identical.
- At the accepting scene, each phase of raw materials shall be located clearly separately by using signs or indications for the location such as “For goods before the inspection” and “For compliant goods”.
- Results of the acceptance inspection shall be shown in a list so that the situation would be comprehensible any time.
- Since an XRF measurement for raw materials, materials, and/or sub-materials may be requested by our customer especially, an appropriate measurement and action shall be taken by you if it is especially required by us to meet such request. For substances to be measured and specifications, refer to “3. terminology”.

## 2. Actions for nonconforming goods detected in the acceptance inspection

- At the acceptance inspection of raw materials, any of them that is not identical with the ones in the drawings shall be determined as nonconforming goods and be rejected. We, Connector Products Division in Kyocera, shall be notified it at the same time.
- At the acceptance inspection of purchased parts, materials/sub-materials, if any of parts, and/or materials/sub-materials that are not described in the “List of purchased parts, materials/sub-materials” is detected, they shall be rejected or distinguished clearly so that they could not be used in products and/or manufacturing process for products to be delivered to us.
- As a result of an XRF measurement for raw materials, materials, and/or sub-materials conducted due to our customer’s request, if any measured value is larger than the specified values, the materials shall be determined as nonconforming goods and be rejected. We, Connector Products Division in Kyocera, shall be notified it at the same time.

## 3. Storing and retrieving raw materials and materials/sub-materials

- If a same lot number of raw materials or materials/sub-materials is accepted over days, the date accepted shall be identified on the materials while they are stored by lot number.
- At the acceptance, the date accepted and the lot number shall be kept on record, and also they shall be identified on materials with indication or stamp.
- Materials of which lot number showing an older date of manufacture shall be retrieved first, and the date retrieved and accepted and the lot number shall be kept on record.
- Records mentioned above shall be shown in one form for easy identification of storing and retrieving materials to make sure the FIFO management.
- As for raw materials, quantity accepted and used in processes shall be shown. (Quantity accepted, input in processes, residual quantity and etc.)

## 4. Storage of raw materials and materials/sub-materials

- Raw materials and materials/sub-materials shall be stored with clear indication showing that it is RoHS compliant. Materials for leaded plating shall be labeled as RoHS noncompliant (leaded) and stored.
- If a small quantity of materials are taken out, be sure to put the indication “RoHS compliant” or “RoHS noncompliant (leaded)” on them as well as the rest of the materials.  
Halogen-free materials shall be clearly identified so in storage.  
If materials are retrieved in small quantity, the halogen-free indication (HF) shall be shown on remaining materials for sure.  
As for controlling other environmentally hazardous substances requested by us especially, thorough identification management shall be done by you in accordance with the instructions.

### 4.3.2 Manufacturing process

#### 1. Control of the manufacturing process

- Materials/sub-materials for which it was already proven that no environmentally hazardous substance was contained shall only be used in the manufacturing process.
- If materials compliant with the control of environmentally hazardous substances and noncompliant ones are stored in a premise, they shall be clearly separated by location, indication, and etc. so that they would never be mixed in.
- When items other than ones for us are manufactured in the same premise, those of other items shall be located apart and indicated clearly differently from items for us, and they shall never contact with each other. Items for us shall not be contaminated with any of environmentally hazardous substances through materials/sub-materials.
- In each process, the following shall be considered and followed.

Process	Item to be considered	Issue of concern	Controlling
Molding	When molding products for us after material for products other than ours has been used.	Prohibited substance(s) left in the path from the hopper to the die may be contained in products for us.	In the beginning of molding products for us, works shall be discarded until impact of the material previously used for other company's product is eliminated after shifting.
Stamping out	When stamping out by using materials for products other than ours.	By using wrong materials, prohibited substances may be contained in our products.	Materials to be used for our products shall be checked with description on the drawing prior to be used in order to prevent wrong material from being used.
Plating	When putting in anode chips used in a plating process by mistake	By putting in anode chips, prohibited substances may be contained in our products.	Change the shape of anode chips respectively so that the visual identification could be enabled in order to prevent hazardous substances from being contained.
Assembling	Lead-free product is assembled after the leaded products were assembled.	Lead in the leaded product left on the assembly machine may be attached to lead-free product.	When assembly is changed from leaded product to lead-free one, clean parts where lead-free contact may touch to prevent the impact as much as possible.

- To control plating solution in a plating process, cautions and requests for control are shown in "Attachment 4: Control of RoHS-Restricted Substances Contained in the Plating Solution".

#### 2. Actions for nonconformity detected in the manufacturing process

When any nonconformity regarding environmentally hazardous substances is detected in the manufacturing process, the supplier shall perform the procedure in accordance with "Regulations for Supplier's Quality Control (EBQ9)". We, Connector Products Division in Kyocera, will deliver *Regulations for Supplier's Quality Control (EBQ9)* as required by suppliers to whom it has not yet delivered.

### 4.4 Identification

In addition to that RoHS compliant and noncompliant shall be identified by location and its indication in all processes from raw materials, sub-materials, parts, products through packaged products, raw materials, sub-materials, parts, products shall be shown as RoHS compliant goods by affixing a label or stamping a mark on them in order for more definite identification.

As for those of halogen-free, aside from RoHS compliant and noncompliant ones, in addition to they shall be identified by location and its indication, they shall be shown as halogen-free (HF) goods by affixing a label or stamping a mark on them in order for more definite identification. As for controlling other

environmentally hazardous substances requested by us especially, thorough identification management shall be done by you in accordance with the instructions.

#### **4.5 Shipping inspection**

- Inspection items and specification for RoHS shall be included in the shipping inspection record (Final inspection record), and the determination of its compliance with RoHS Directive shall be entered. If the goods are not compliant with RoHS, “RoHS-noncompliant” shall be indicated.
- Since submission of any analytical data for materials, parts, and/or assemblies may be requested by our customer especially, appropriate measurements and actions shall be taken by you if it is required especially by us to meet such request. For substances to be measured and specifications, refer to “3. terminology”.  
If measured values do not satisfy our requirements, stop the shipment as non-conforming products, and report it to us, Connector Products Division in Kyocera.

#### **4.6 Keeping records**

1. The following shall be kept for 11 years or more as a quality record.
  - 1) Documents submitted in accordance with 4.2.
  - 2) Record of actions for nonconformity detected in the acceptance inspection and/or manufacturing process
  - 3) Other records is requested by us  
e.g.) Training record for environmentally hazardous substances control, Record for communication regarding this Guideline on Environmentally Hazardous Substances, Record of qualification done by inspector, Records regarding the plating process control (Attachment 4: Control of RoHS-Restricted Substances Contained in the Plating Solution)
2. Records shall be handled as follows.
  - 1) Records shall be accessed easily when needed through index or something like that.
  - 2) If records are kept in the form of electronic file, back up copy of the file shall be made in case of file damage.

#### **4.7 Others**

1. Notification of the responsible person for environment management  
The person in charge of management of environment-related substances shall be designated and be notified to our person in charge in Connector Products Division in KC.
2. Communication to your second-tier suppliers
  - (1) If you are a manufacturer:  
As for manufacturers from whom you procure parts/materials to fabricate your products to be delivered to us and subcontractor processor to whom you order processing for your product to be delivered to us, you shall instruct them to be involved in the activities to control environmentally hazardous substances according to this guideline and make sure that each of them satisfies all the requirements set forth in it. Please give them required assistance to achieve their compliance.
  - (2) If you are a trading company:  
For manufacturers from whom you buy goods for your products to be delivered to us, you shall communicated this guideline and instruct them to be involved in the activities to control environmentally hazardous substances according to this guideline. Please collect information from such manufactures regarding their compliance to requirements set forth in this guideline, and submit them to us.

## **5. Where to call about what mentioned in this document;**

Guideline on Environmentally Hazardous Substances of Connector Products Division, Corporate Electronic Parts Group, KYOCERA Corporation.

Please ask the following person any questions about what mentioned in this guideline.

Contact: Yoshiharu Fujii in Design Administration Section,

Connector Products Division

Phone number: (8)-045-611-1029 (Ext. 6674)

E-mail: [yoshiharu.fujii.cy@kyocera.jp](mailto:yoshiharu.fujii.cy@kyocera.jp)

### **Note**

Priority shall be given to the expressions written in Japanese when any unclarity arises in this document.

環境負荷物質一覧<添付1>  
List of Environmentally Hazardous Substances<Attachment 1>

この一覧は例示物質であるため、一覧に掲載されていない物質で禁止物質に該当する場合、報告する事。

ランク				物質群 / Substance group	物質名 / Substance	CAS No.					
含有禁止物質	全量対象物質	管理対象物質	報告対象物質								
G-1				※カドミウム及びその化合物/Cadmium and its compounds	カドミウム/Cadmium	7440-43-9					
					カドミウム含有合金/Cadmium alloys	-					
					酸化カドミウム/Cadmium oxide	1306-19-0					
					塩化カドミウム/Cadmium chloride	10108-64-2					
					硫化カドミウム/Cadmium sulfide	1306-23-6					
					8048-7-5	-					
					硝酸カドミウム/Cadmium nitrate	10325-94-7					
					硝酸カドミウム/Cadmium nitrate tetrahydrate	10022-68-1					
					硫酸カドミウム/Cadmium sulfate	10124-36-4					
					ステアリン酸カドミウム/Cadmium stearate	2223-93-0					
G-2				※鉛及びその化合物/Lead and its compounds	その他のカドミウム化合物/The other cadmium compounds	-					
					鉛/Lead/metal lead	7439-92-1					
					ハンダ/Solder	-					
					その他の鉛合金/Other lead alloys	-					
					一酸化鉛(Ⅱ)/Lead(Ⅱ)oxide	1317-36-8					
					酸化鉛(Ⅳ)/Lead(Ⅳ)oxide	1309-60-0					
					二酸化二鉛/Dilead trioxide	-					
					四酸化二鉛/Trilead tetraoxide	1314-41-6					
					13424-46-9	-					
					アジ化鉛/Lead azide	13424-46-9					
					二硫化鉛/Lead(Ⅱ)sulfide	7783-46-2					
					三氯化鉛/Lead(Ⅱ)chloride	7758-95-4					
					四氯化鉛/Lead(Ⅳ)chloride	-					
					ヨウ化第一鉛/Lead(Ⅱ)iodide	-					
					硫化鉛(Ⅱ)/lead(Ⅱ)sulfide	1314-87-0					
					シアン化鉛(Ⅱ)/lead(Ⅱ)cyanide	-					
					硼酸鉛/Lead fluoroborate	13814-96-5					
					珪酸鉛/Lead fluosilicate	25808-74-6					
					硝酸鉛/Lead nitrate	10099-74-8					
					炭酸鉛/Lead carbonate	-					
					ヒドロキシ炭酸鉛/Lead hydroxycarbonate	1344-36-1					
					過塩素酸鉛/Lead perchlorate	-					
					硫酸第一鉛/硫酸鉛(Ⅱ)/Lead(Ⅱ)sulfate	-					
					オキシ硫酸鉛/塩基性硫酸鉛/Lead oxysulfate	7446-14-2					
					オルト塩酸鉛/硫酸鉛(Ⅱ)/Orthophosphoric acid lead salt	-					
					チオシアン酸鉛/Lead thiocyanate	592-87-0					
					酢酸第一鉛/Lead(Ⅱ)acetate	6080-56-4					
					酢酸第二鉛/Lead(Ⅳ)acetate	301-04-2					
					乳酸鉛/Lead lactate	-					
					オレイン酸鉛/Lead oleate	-					
					ステアリン酸鉛/Lead stearate	7428-48-0					
					硼酸鉛/Lead(Ⅱ)metaborate	10214-39-8					
					珪酸鉛/Lead metasilicate	-					
					アンチモン酸鉛/Lead antimonate	-					
					砒酸鉛/Lead arsenate	-					
					亜硫酸鉛/Lead arsenite	-					
					クロム酸鉛/Lead chromate:chrome yellow	1344-37-2					
					メタバナジウム酸鉛/Lead metavanadate	-					
					モリブデン酸鉛/Lead molybdate	-					
					鉛酸カルシウム/Calcium plumbate	-					
					テトラメチル鉛/Tetramethyllead	75-74-1					
					テトラエチル鉛/Tetraethyllead	78-00-2					
					その他の鉛化合物/The other lead	-					
					G-3				※水銀及びその化合物/Mercury and its compounds	水銀/Mercury	7439-97-6
										アマルガム/Amalgam	-
酸化水銀(Ⅰ)/Mercurous oxide(Ⅰ)	-										
酸化水銀(Ⅱ)/Mercuric oxide:mercury(Ⅱ)oxide	21908-53-2										
塩化水銀(Ⅰ)/カドメル/Mercurous chloride(Ⅰ)	10112-91-1										
塩化水銀(Ⅱ)/Mercuric chloride(Ⅱ)	7487-94-7										
硝酸水銀(Ⅱ)/Mercuric nitrate(Ⅱ)	10045-94-0										
硫酸水銀(Ⅰ)/Mercurous sulfate(Ⅰ)	-										
雷酸水銀(Ⅱ)/Mercuric fulminate(Ⅱ)	7783-35-9										
酢酸水銀(Ⅱ)/Mercuric acetate(Ⅱ)	1600-27-7										
メチル水銀塩/Methylmercury salts	-										
エチル水銀塩/Ethylmercury salts	-										
プロピル水銀塩/Propylmercury salts	-										
フェニル水銀塩/Phenylmercury salts	-										
メチルエチル水銀塩/Methoxyethylmercury salts	-										
ジアルキル水銀/Dialkylmercury	-										
ジフェニル水銀/Diphenylmercury	-										
G-4				※六価クロム化合物/ Hexavalent chromium and its compounds						その他の水銀化合物/Other mercury compounds	-
					酸化クロム(VI)/Chromium(VI)oxide	1333-82-0					
					クロム酸リチウム/Lithium chromate	14307-35-8					
					クロム酸ナトリウム/Sodium chromate	7775-11-3					
					クロム酸カリウム/Potassium chromate	7789-00-6					
					塩化クロム酸カリウム/Potassium chlorochromate	-					
					クロム酸アンモニウム/Ammonium chromate	7788-98-9					
					クロム酸銅/Copper chromate	-					
					クロム酸マグネシウム/Magnesium chromate	-					
					クロム酸カルシウム/Calcium chromate	-					
					クロム酸ストロンチウム/Strontium chromate	7789-6-2					
					クロム酸バリウム/Barium chromate	10294-40-3					
					クロム酸鉛/Lead chromate:chrome yellow	1344-37-2					
					12018-19-8	-					
					クロム酸亜鉛/Zinc chromate	13530-65-9					
					14018-95-2	-					
					重クロム酸ナトリウム/Sodium dichromate	10588-01-9					
					重クロム酸カリウム/Potassium dichromate:potassium bichromate	7778-50-9					
重クロム酸アンモニウム/ Ammonium dichromate:ammonium bichromate	7789-9-5										
重クロム酸カルシウム/Calcium dichromate:calcium bichromate	-										
重クロム酸亜鉛/Zinc dichromate:zinc bichromate	-										
その他の六価クロム化合物/ The other hexavalent chromium compounds	-										
G-5				※ポリ臭化ビフェニール類(PBB類)/ Polybrominated biphenyls (PBBs)	ポリブロモビフェニール/Polybromobiphenyl	6774-32-7					
					モノブロモビフェニール/Monobromobiphenyl	2052-07-7, 2113-57-7, 92-66-0					
					ジブロモビフェニール/Dibromobiphenyl	77102-82-0					
					トリブロモビフェニール/Tribromobiphenyl	67888-96-4					
					テトラブロモビフェニール/Tetrabromobiphenyl	59080-40-9					
					ペンタブロモビフェニール/Pentabromobiphenyl	69278-59-7					
					ヘキサブロモビフェニール/Hexabromobiphenyl	60044-26-0					
					ヘプタブロモビフェニール/Heptabromobiphenyl	67733-52-2					
					オクタブロモビフェニール/Octabromobiphenyl	61288-13-9					
					ノナブロモビフェニール/Nonabromobiphenyl	27753-52-2					
G-6				※ポリ臭化ジフェニールエーテル類(PBDE類、DecaBDEを含む)/ Polybrominated diphenylethers (PBDEs)	デカブロモビフェニール/Decabromobiphenyl	13654-09-6					
					ポリブロモジフェニールエーテル/Polybromodiphenyl ether	-					
					モノブロモジフェニールエーテル/Monobromodiphenyl ether	-					
					ジブロモジフェニールエーテル/Dibromodiphenyl ether	-					
					トリブロモジフェニールエーテル/Tribromodiphenyl ether	-					
					テトラブロモジフェニールエーテル/Tetrabromodiphenyl ether	40088-47-9					
					ペンタブロモジフェニールエーテル/pentabromodiphenyl ether	32534-81-9					
					ヘキサブロモジフェニールエーテル/hexabromodiphenyl ether	36483-60-0					
					ヘプタブロモジフェニールエーテル/Heptabromodiphenyl ether	68928-80-3					
					オクタブロモジフェニールエーテル/Octabromodiphenyl ether	32536-52-0					
ノナブロモジフェニールエーテル/Nonabromodiphenyl ether	63936-56-1										
デカブロモジフェニールエーテル/Decabromodiphenyl ether	1163-19-5										

環境負荷物質一覧<添付1>  
List of Environmentally Hazardous Substances<Attachment 1>

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.					
含有禁止物質	全量対象物質	管理対象物質	報告対象物質								
G-7				ポリ塩化ビフェニル類(PCB類)/ Polychlorinated biphenyls (PCBs)	ポリ塩化ビフェニル類/Polychlorinated Biphenyls	1336-36-3					
					アロクロール/Aroclor	12167-79-2					
					クロロジフェニル(アロクロール1260)/Chlorodiphenyl(Aroclor 1260)	11096-82-5					
					カネクロール/Kanechlor500/Kanechlor 500	27323-18-8					
					アロクロール1254/Aroclor 1254	11097-69-1					
G-8				ポリ塩化ターフェニル類(PCT類) Polychlorinated terphenyls (PCTs)	ポリ塩化ターフェニル/Polychlorinated terphenyls	61788-33-8					
					テルフェニル類/Terphenyls	26140-60-3					
G-9				ビス(トリブチルスズ)オキシド(TBTO)/ Bis(tri-n-butyltin)oxide(TBTO)	ビス(トリブチルスズ)オキシド/Bis(tri-n-butyltin)oxide	56-35-9					
G-10				ポリ塩化ナフタレン(塩素数が1以上)(PCN類)/ Polychlorinated naphthalenes (with three or more chlorine substituents)(PCNs)	ポリ塩化ナフタレンクロロナフタレン/Polychlorinated naphthalene	70776-03-3					
					トリクロロナフタレン/Trichloronaphthalene	1321-65-9					
					テトラクロロナフタレン/Tetrachloronaphthalene	1335-88-2					
					ペンタクロロナフタレン/Pentachloronaphthalene	1321-64-8					
G-11				短鎖型塩化パラフィン (炭素鎖長:10~13の短鎖型塩素化パラフィンを対象)/ Chlorinated paraffins(C10-13, Cl ≥50wt%)	塩化パラフィン(炭素数10-13, 塩素50 wt%以上)/ Chlorinated paraffins(C10-13, Cl ≥50wt%)	61788-76-9					
					塩化パラフィン(炭素数10-13, Cl ≥50wt%)	63449-39-8					
					テトラクロロ無水フタル酸/tetrachloro phthalic anhydride	117-08-8					
					トリスクロロエチルホスフェート(TCEP)/ Tris(2-chloroethyl)phosphate(TCEP)	115-96-8					
					トリスクロロプロピルホスフェート (TCPP)/Tris(chloropropyl)phosphate(TCPP)	6145-73-9					
					トリスクロロプロピルホスフェート (TDCPP)/Tris(dichloropropyl)phosphate(TDCPP)	78-43-3					
					その他の短鎖型塩化パラフィン	85535-84-8					
						108171-26-2					
						71011-12-6					
					G-12				中鎖型塩化パラフィン (炭素鎖長:14~17の中鎖型塩素化パラフィンを対象)/ Medium-chained chlorinated paraffin(C14-C17)	中鎖型塩化パラフィン(炭素数14-17)/ Medium-chained chlorinated paraffin(C14-C17)	-
G-13				長鎖型塩化パラフィン (炭素鎖長:18~30の長鎖型塩素化パラフィンを対象)/ Long-Chained Chlorinated Paraffins(C18-C30)	長鎖型塩化パラフィン(炭素数18-30)/ Long-Chained Chlorinated Paraffins(C18-C30)	-					
G-14				アスベスト類/Asbestos	石綿/Asbestos	1332-21-4					
					アクチノライト/Actinolite	77536-66-4					
					アモサイト/Amosite	12172-73-5					
					アンソファイト/Anthophyllite	77536-67-5					
					クリノタイル/Chrysotile	12001-29-5					
					クロシドライト/Crocidolite	12001-28-4					
					トレモライト/Tremolite	77536-68-6					
					その他のアスベスト類/Other asbestos						
G-15				アゾ染料・顔料/Azo colorants	4-アミノアゾベンゼン/4-aminoazobenzene	60-09-3					
					o-アニジジン/o-anisidine	90-04-0					
					2-ナフチルアミン/2-naphthylamine	91-59-8					
					3,3-ジクロロベンジジン/3,3-dichlorobenzidine	91-94-1					
					4-アミノジフェニル/4-aminodiphenyl	92-67-1					
					o-トルイジン/ortho-toluidine	95-53-4					
					4-クロロ-o-トルイジン/4-chloro-o-toluidine	95-69-2					
					2,4-トルエンジアミン/2,4-toluenediamine	95-80-7					
					o-アミノトルエン/ortho-Aminotoluene	97-56-3					
					5-ニトロ-o-トルイジン/5-nitro-o-toluidine	99-55-8					
					4,4'-メチレンビス-(2-クロロアニリン)/ 4,4'-methylen-bis-(2-chloroaniline)	101-14-4					
					4,4'-ジアミノジフェニルメタン/4,4'-diaminodiphenylmethane	101-77-9					
					4,4'-オキシジアニリン/4,4'-oxydianiline	101-80-4					
					o-クロロアニリン/o-chloroaniline	106-47-8					
					3,3'-ジメチルベンジジン/3,3'-dimethylbenzidine	119-90-4					
					3,3'-ジメチルベンジジン/3,3'-dimethylbenzidine	119-93-7					
					o-クレイジン/o-cresidine	120-71-8					
					2,4,5-トリメチルアニリン/2,4,5-trimethylaniline	137-17-7					
					4,4'-チオジアニリン/4,4'-thiodianiline	139-65-1					
					2,4-ジアミノアニソール/2,4-diaminoanisole	615-05-4					
					3,3'-ジメチル-4,4'-ジアミノジフェニルメタン/ 3,3'-dimethyl-4,4'-diaminodiphenylmethane	838-88-0					
					2-Naphthalenecarboxamide, 3-hydroxy-4-[2-(2-methyl-5-nitrophenyl)diazenyl]-N-phenyl-	6448-95-9					
					4,4'-[(3,3'-ジクロロ-1,1'-ビフェニル-4,4'-ジイル)ビス(アゾ)]ビス (4,5'-ジヒドロ-5'-オキシ-1-フェニル-1H-ピラゾール-3-カルボキ酸エチル)	6358-87-8					
					N-(4-クロロフェニル)-3-ヒドロキシ-4-[(2-メチル-5-ニトロフェニル)アゾ]-2-ナフタレンカルボアミド	6410-30-6					
					G-16*				オゾン層破壊物質(ODS) (モントリオール議定書対象物質)/ Ozone layer depleting substances	1,1,1-トリクロロエタン/ Ozone Depleting Chemical: 1,1,1-trichloroethane	71-55-6
										CFC-11:クロロトリフルオロメタン/Chlorotrifluoromethane	75-69-4
										CFC-12:ジクロロジフルオロメタン/Dichlorodifluoromethane	75-71-8
										CFC-113:トリクロロフルオロエタン/Trichlorotrifluoroethane	75-72-9
										CFC-114:ジクロロテトラフルオロエタン/Dichlorotetrafluoroethane	76-14-2
										CFC-115:クロロペンタフルオロエタン/Chloropentafluoroethane	76-15-3
ハロン-1211:ブロモクロロジフルオロメタン /Bromochlorodifluoroethane	353-59-3										
ハロン-1301:ブロモトリフルオロメタン/Bromotrifluoromethane	75-63-8										
ハロン-2402:ジブロモテトラフルオロメタン /Dibromotetrafluoroethane	124-73-2										
CFC-13:クロロトリフルオロメタン/Chlorotrifluoromethane	75-72-9										
CFC-111:ペンタクロロフルオロエタン/Pentachlorofluoroethane	354-56-3										
CFC-112:テトラクロロジフルオロエタン/Tetrachlorodifluoroethane	76-12-0										
CFC-211:ヘプタクロロフルオロプロパン/Heptachlorofluoropropane	135401-87-5										
CFC-212:ヘキサクロロジフルオロプロパン /Hexachlorodifluoropropane	3182-26-1										
CFC-213:ペンタクロロトリフルオロプロパン /Pentachlorotrifluoropropane	134237-31-3										
CFC-214:テトラクロロテトラフルオロプロパン /Tetrachlorotetrafluoropropane	2268-46-4										
CFC-215:トリクロロペンタフルオロプロパン/ Trichloropentafluoropropane	76-17-5										
CFC-216:ジクロロヘキサフルオロプロパン/ Dichlorohexafluoropropane	661-97-2										
CFC-217:クロロヘプタフルオロプロパン/ Chloroheptafluoropropane	422-86-6										
ハロン-1101:ブロモフルオロメタン/Bromofluoromethane	373-52-4										
ハロン-1102:ジブロモフルオロメタン/Dibromofluoromethane	1868-53-7										
ハロン-1201:ブロモジフルオロメタン-HBFC- 2281/Bromodifluoromethane	1511-62-2										
ハロン-2101:ブロモフルオロエタン/Bromofluoroethane	762-49-2										
ハロン-2102:ジブロモフルオロエタン/Dibromofluoroethane	358-97-4										
ハロン-2103:トリブロモフルオロエタン/Tribromofluoroethane	-										
ハロン-2104:テトラブロモフルオロエタン/Tetrabromofluoroethane	-										
ハロン-2201:ブロモジフルオロエタン/Bromodifluoroethane	420-47-3										
ハロン-2202:ジブロモジフルオロエタン/Dibromodifluoroethane	75-82-1										
ハロン-2203:トリブロモジフルオロエタン/Tribromodifluoroethane	-										
ハロン-2301:ブロモトリフルオロエタン/Bromotrifluoroethane	421-06-7										
ハロン-2302:ジブロモトリフルオロエタン/Dibromotrifluoroethane	354-04-1										
ハロン-2401:ブロモテトラフルオロエタン/Bromotetrafluoroethane	1871-72-3										
ハロン-3101:ブロモフルオロプロパン/Bromofluoropropane	1871-72-3										
ハロン-3102:ジブロモフルオロプロパン/Dibromofluoropropane	-										
ハロン-3103:トリブロモフルオロプロパン/Tribromofluoropropane	-										
ハロン-3104:テトラブロモフルオロプロパン /Tetrabromofluoropropane	-										
ハロン-3106:ヘキサブロモフルオロプロパン /Hexabromofluoropropane	-										
ハロン-3201:ブロモジフルオロプロパン/Bromodifluoropropane	-										
ハロン-3202:ジブロモジフルオロプロパン/Dibromodifluoropropane	460-25-3										
ハロン-3203:トリブロモジフルオロプロパン /Tribromodifluoropropane	-										
ハロン-3204:テトラブロモジフルオロプロパン /Tetrabromodifluoropropane	-										
ハロン-3205:ペンタブロモジフルオロプロパン /Pentabromodifluoropropane	-										
ハロン-3105:ペンタブロモフルオロプロパン /Pentabromofluoropropane	-										
ハロン-3301:ブロモトリフルオロプロパン/Bromotrifluoropropane	-										
ハロン-3302:ジブロモトリフルオロプロパン/Dibromotrifluoropropane	431-21-0										
ハロン-3303:トリブロモトリフルオロプロパン /Tribromotrifluoropropane	-										



環境負荷物質一覧<添付1>  
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ランク				物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	全量対象物質	管理物質	報告対象物質			
G-16				オゾン層破壊物質(ODS) (モンントリアル議定書対象物質)/ Ozone layer depleting substances	ハロン-3304;テトラブromoトリフルオロプロパン Tetrabromotrifluoropropane	-
					ハロン-3401;ブromoテトラフルオロプロパン /Bromotetrafluoropropane	-
					ハロン-3402;ジブromoテトラフルオロプロパン /Dibromotetrafluoropropane	-
					ハロン-3403;トリブromoテトラフルオロプロパン /Tribromotetrafluoropropane	-
					ハロン-3501;ブromoペンタフルオロプロパン /Bromopentafluoropropane	-
					ハロン-3502;ジブromoペンタフルオロプロパン /Dibromopentafluoropropane	-
					ハロン-3601;ブromoヘキサフルオロプロパン /Bromohexafluoropropane	2252-78-0
					四塩化炭素 /Ozone Depleting Chemical: Carbon tetrachloride	56-23-5
					ビス(トリブチルスズ)オキシド /Bis(tri-n-butyltin) oxide(TBTO)	56-35-9
					トリフェニルスズ-n,n-ジメチルジチオカルバマート/ Triphenyltin n,n-dimethyldithiocarbamate	1803-12-9
トリフェニルスズフルオリド /Triphenyltin fluoride	379-52-2					
トリフェニルスズアセタート /Triphenyltin acetate	900-95-8					
トリフェニルスズクロリド /Triphenyltin chloride	639-58-7					
トリフェニルスズヒドロキシド /Triphenyltin hydroxide	76-87-9					
トリフェニルスズ脂肪酸塩(C-9-11) / Triphenyltin fatty acid salts(C-9-11)	47672-31-1 18380-71-7 18380-72-8 94850-90-5					
トリフェニルスズクロロアセタート /Triphenyltin chloroacetate	7094-94-2					
トリフェニルスズメタクリラート /Triphenyltin methacrylate	2155-70-6					
ビス(トリブチルスズ)フマレート /Bis(tributyltin) fumarate	8454-35-9					
トリブチルスズフルオリド /Tributyltin fluoride	1983-10-4					
ビス(トリブチルスズ)-2,3-ジブromoスズシナート/ Bis(tributyltin)-2,3-dibromosuccinate	31732-71-5					
トリブチルスズアセタート /Tributyltin acetate	56-36-0					
トリブチルスズラウレート /Tributyltin laurate	3090-36-6					
ビス(トリブチルスズ)フタレート /Tributyltin phthalate	4782-29-0					
アルキル=アクリラート,メチル=メタクリラート,およびトリブチルスズ= メタクリラートの共重合体(アルキルC=8)/ Copolymer of alkyl acrylate, methylmethacrylate and tributyltin methacrylate,(alkyl,C=8)	67772-01-4					
トリブチルスズ=スルファマート /Tributyltin sulfamate	6517-25-5					
ビス(トリブチルスズ)マレアート /Bis(tributyltin) maleate	14275-57-1					
トリブチルスズクロリド /Tributyltin chloride	7342-38-3					
トリブチルスズ=シクロペンタンカルボキシラートおよびその類縁化合物 (トリブチルスズ=ナフテン酸)の混合物 /Mixture of tributyltin cyclopentanecarboxylateand its analogs(Tributyltin naphthenate)	85409-17-2					
トリブチルスズ=1,2,3,4,4a,5b,5,6,10,10a-デカヒドロ-7- イソプロピル-1,4a-ジメチル-1- フェナントレンカルボキシラート及びその類縁化合物 (トリブチルスズ=ロジンソルト)の混合物 / Mixture of tributyltin 1,2,3,4a,4b,5,6,10,10a-decahydro-7- isopropyl-1,4a-dimethyl-1- phenanthlenecarboxylate and itsanalog(Tributyltin rosin salt)	26239-64-5					
臭化トリ-n-ブチルスズ /Tri-n-butyltinbromide	1461-23-0					
トリフェニルスズ /Triphenyl tin	1282-21-1					
臭化トリフェニルスズ /Triphenyl tin bromide	962-89-0					
トリブチルスズメチンシド /Tri-n-butyltin methanolate	1067-52-3					
水酸化トリブチルスズ /Tributyltin hydroxide	1067-97-6					
トリブチル[(メチルスルホニル)オキシ]スタンナン /Tri-n-butyltin methanesulfonate	13302-06-2					
(アクリロイルオキシ)トリブチルスズ /acryloyloxytributylstannane	13331-52-7					
ビス(トリブチルスズ)マレアート /Bis(tributyltin) maleate	14275-57-1					
ジメチルジチオカルバミン酸トリブチルスズ(IV)/ Tributyltin dimethyldithiocarbamate	20369-63-5					
シアナトトリブチルスズ /Tributyltin cyanide	2179-92-2					
トリブチルスズリノール酸塩(TBTL) /Tributyltin linoleate	24124-25-2					
メチレンブタン二酸ビス(トリブチルスズ) /Bis(tributyltin) itaconate	25711-26-6					
トリブチル[(1-オキシ-3-フェニル-2-プロペニル)オキシ]スタンナン /Tributyltin cinnamate	27147-18-8					
ブromoトリブチルスタンナン /Tripropyltin bromide	2767-61-5					
トリブチル[(1-オキシ-9Z-オクタデセニル)オキシ]スタンナン /Tributyl(oleoyloxy)stannane	3090-35-5					
トリブチル[(4-クロロブチル)オキシ]スタンナン/ Tributyltin gammachlorobutylate	33550-22-0					
トリブチル(4-ニトロフェニル)スタンナン/ Tributyl(4-nitrophenoxy)stannane	3644-32-4					
[(1,1'-ビフェニル)-2-イルオキシ]トリブチルスズスタンナン/ [(1,1'-Biphenyl)-2-yl-oxy]tributylstannane	3644-37-9					
ナフチン酸トリブチルスズ /Tributyltin naphthenate	36631-23-9					
(ノナノイルオキシ)トリブチルスズスタンナン /Tributyltin nonanoate	4027-14-9					
シアナトトリブチルスズスタンナン /Cyanatotributylstannane	4027-17-2					
4-オキシ-4-[(トリブチルスズニル)-2-ブチン酸/ 4-oxo-4-[(tributylstannyl)oxy]but-2-enoic acid	4027-18-3					
o-ヒドロキシ安息香酸トリブチルスズ/ Tributylstannyl 2-hydroxybenzoate	4342-30-7					
トリブチルスズベンゾエート /Tributyltin benzoate	4342-36-3					
2-エチルヘキサン酸トリブチルスズ /Tributyltin 2-ethylhexanoate	5035-67-6					
こほく酸-イソプロピル4-(トリブチルスズニル)/ Tributyltin isopropylsuccinate	53404-82-3					
プロピレングリコールトリブチルスズマレイン酸塩/ Tributyltin monoglycolylsuccinate	53466-85-6					
クロロ酢酸トリブチルスズ /Tributyltin chloroacetate	5847-52-9					
トリブチルスズ /Tributyltin	56573-85-4					
トリブチルイソシアナトスタンナン /Tri-n-butylisocyanatotin	681-99-2					
水酸化トリ-n-ブチルスズ /Tri-n-butyltin hydride	688-73-3					
トリブチル(ウンデカノイル)オキシ]スタンナン	69226-47-7					
トリブチルスズヨード /Tributyltin iodide	7342-47-4					
トリブチル[(3-ヨドベンゾイル)オキシ]スタンナン/ o-Iodobenzoic acid tributylstannyl ester	73927-91-0 73927-93-2					
トリブチル[(3-ヨドプロピオニル)オキシ]スタンナン/ Tributyltin .beta.-iodopropionate	73927-95-4					
トリブチル[[[(2, 2, 3, 3-テトラメチルブチル)チオ]アセチル]オキ シ]スタンナン /Tributyltin isooctylthioacetate	73927-97-6					
トリブチル[(4-ヨドベンゾイル)オキシ]スタンナン/ Benzoic acid, p-iodo-, tributylstannyl ester	73940-88-2					
トリブチル[[2-(2, 4, 5-トリクロロフェノキシ)プロピオニル]オキシ] スタンナン /Stannane, tributyl(2-(2,4,5-trichlorophenoxy)-2- propionyloxy)-	73940-89-3					
1,3,5-トリブチル(トリブチルスズニル)-1,3,5-トリアジン- 2,4,6-(1H,3H,5H)-トリオン /1,3,5-Tris(tributylstannyl)-1,3,5-triazine- 2,4,6-trione	752-58-9					
水酸化トリフェニルスズ /Triphenyltin hydride	892-20-6					
トリフェニルヨードスタンナン /Triphenyliodotin	894-09-7					
リン酸トリブチルスズ /Tin, phosphotris(tributyl- fタロイルオキシ)ビス(トリフェニルスズニル)/[1,2- Phenylenebis(carboxyloxy)]bis(triphenylstannane]	13435-05-7 1954-36-5					

G-17

特定有機スズ化合物/Organic tin compounds

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	全量対象物質	管理物質	報告対象物質			
G-17				特定有機スズ化合物/Organic tin compounds	[(1-オキソドデシル)オキシ]トリフェニルスズ/[(1-oxododecyl)oxy]triphenylstannane	3644-29-9
					トリブチル(ペンタクロロフェノキシ)スズ /Tributyl(pentachlorophenoxy)stannane	3644-38-0
					ビス(トリブチルスズテラレート)/ [(terephthaloylbis)bis(tributylstannane)]	4756-53-0
					トリブチル(ホルミルオキシ)スズ/Tributyl(formyl)stannane	5847-51-8
					トリフェニルスズ(V)カチオン/Stannivium, triphenyl-	668-34-8
					トリブチルスズエトキシド/Tributyltin ethoxide	882-00-8
					安息香酸トリフェニルスズ(V)/Benzoic acid triphenyltin	910-06-5
					その他のトリブチルスズ類(TPT類)およびトリフェニルスズ類(TPT類)/Other Tributyl Tins(TBTs) & TriphenylTins(TPTs)	-
					トリメチルスズプロミド/Bromotrimethylstannane	1066-44-0
					塩化トリメチルスズ/Trimethyltin chloride	1066-45-1
					アジ化トリメチルスズ/Trimethyltin azide	1118-03-2
					酢酸トリメチルスズ/Trimethyltin acetate	1118-14-5
					トリエチルフェノキシタンナン/Stannane,triethylphenoxy-	1529-30-2
					酢酸トリエチルスズ/Triethyltin acetate	1907-13-7
					トリプロピルスズクロライド/Tri-n-propylchlorotin	2279-76-7
					トリエチルオキシ(V)/Triethyltin(IV)	2943-06-4
					アセトキシトリプロピルスズタンナン/Tri-n-propyltin acetate	3267-78-5
					メタクリル酸トリプロピルスズ/Tripropyltin methacrylate	4154-35-2
					トリメチル(チオシアナト)スズタンナン/Trimethyltin thiocyanate	4638-25-9
					トリメチルスズタンナール/Trimethyltin hydroxide	56-24-6
					[(1-オキソドデシル)オキシ]トリプロピルスズタンナン/Tripropyltin laurate	57808-37-4
					硫酸トリメチルスズタンニル/Trimethyltinsulphate	63869-87-4
					ヨードトリプロピルスズタンナン/Tripropyltin iodide	7342-45-2
					[(オ-ド)アセチルオキシ]トリプロピルスズタンナン/Stannane, (iodoacetoxy)tri-propyl-	73927-92-1
					ヨードトリメチルスズタンナン/Trimethyliodostannane	811-73-4
					塩化トリエチルスズ/Triethyltin chloride	994-31-0
					トリエチルヒドロキシスズ/Triethyltin hydroxide	994-32-1
					ヒドロキソトリフェニルメチルスズ/Hydroxytris(phenylmethyl)stannane	15082-85-6
					トリフルオロメチルスズトリ-n-ブチルスズ/Tri-n-butyltin trifluoromethanesulfonate	68725-14-4
					ジブチルスズ水酸化ホウ素(DBB)/Dibutyltin hydroeen borate(DBB)	75113-37-0
					その他三置換有機スズ化合物/ Other tri-substituted organotincompounds	-
					ジブチルスズマレイル機塩/Dibutyltin maleate	78-04-6
					ジブチルスズ/Dibutyl tin	1002-53-5
					Z,Z)-4,4'-[(ジブチルスズタニレン)ビス(オキシ)] ビス[4-オキシ-2,2'-2-ブテン酸]/ Dibutyltin dimaleate	10192-92-4
					ジブチルスズジアセテート/Dibutyltin diacetate	1067-33-0
					ジブチルビス(トデシルチオ)スズタンナン/Dibutyltin dilauryl mercaptide	1185-81-5
					Z,Z)-ジブチルビス(3-カルボキシアクリロイル)オキシ- スズタンナンジエチルエステル/ Ethyl (Z,Z)-9,9-dibutyl-4,7,11-trioxo-3,8,10-rioxa-9- stannatetradeca-5,12-dien-14-oate	13173-04-1
					ジブチルビス(オレオイルオキシ)スズタンナン/ Dibutylbis(octadec-9(Z)-enoxyloxy)stannane	13323-62-1
					ジブチルビス[(1-オキシヘキサデシル)オキシ]スズ/ Dibutylbis(hexadecyloxy)stannane	13323-63-2
					ビス(o-ヒドロキシ安息香酸)ジブチルスズ/ Dibutylbis(2-hydroxybenzoyleoxy)stannane	14214-24-5
					(Z,Z)-4,4'-[(ジブチルスズタニレン)ビス(オキシ)]ビス[4-オキシ-2-ブテ ン酸ジメチルエステル/ Methyl (Z,Z)-8,8-dibutyl-3,6,10-trioxo-2,7,9-trioxa-8- stannatetradeca-4,11-dien-13-oate	15546-11-9
					ビス(マレイル)酸=2-エチルヘキシル)ジブチルスズ/ 2-ethylhexyl 6,6-dibutyl-14-ethyl-4,8,11-trioxo-5,7,12-trioxa-6- stannaoctadeca-2,9-dienoate	15546-12-0
					(Z,Z)-ビス[(4-トキシ-1,4-ジオキソ-2-ブチニル)オキシ] ジブチルスズタンナン/ Butyl (Z,Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxa-6- stannahehexadeca-2,9-dienoate	15546-16-4
					ジブチル(1,2-エタンジアミン-N,N')ビス (イソオクチル2-ブテンジオアト)スズ/ Tin, dibutyl(1,2-ethanediamine-kappa.N1,kappa.N2)bis(1-isooctyl 2-butenedioato-kappa.O4)-	163206-28-8
					二酢酸ジブチルスズ/Bis(acetato)dibutyltin	17523-06-7
二ヘキサノ酸ジブチルスズ/Dibutylbis(1-oxohexyloxy)stannane	19704-60-0					
(Z,Z)-ジブチルビス(3-カルボキシアクリロイル)オキシ- スズタンナンジブチルプロピル/ Isopropyl (Z,Z)-9,9-dibutyl-2-methyl-4,7,11-trioxo-3,8,10-trioxa- 9-stannatetradeca-5,12-dien-14-oate	22535-42-8					
ジブチル錳ビス(アセチルアセテート)/ Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4					
2,2'-[(ジブチルスズタニレン)ビス(チオ)]ジ酢酸ジイソオクチル/ Tin, dibutyl-bis(isooctyl)mercaptoacetate	25168-24-5					
3,3'-[(ジブチルスズタニレン)ビス(チオ)]ビス-プロパン酸ジイソオクチル /Diisooctyl 3,3'-[(dibutylstannylene)bis(thio)]-dipropionate	26761-46-6					
ビス(メルカプト酢酸)ジブチルスズ/ Octyl 4,4-dibutyl-7-oxo-8-oxa-3,5-dithia-4-stannahehexadecanoate	2781-09-1					
ジブチルスズビス(2-エチルヘキサノート)/ Dibutyltin bis(2-ethylhexanoate)	2781-10-4					
(all-Z)-4,4'-[(ジブチルスズタニレン)ビス(オキシ)] ビス[4-オキシ-2-ブテン酸ジ-9-オクタデセニル/ (Z)-octadec-9-enyl (all-Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxa- 6-stannatetradeca-2,9-trienoate	29881-72-9					
S,S'-ビス(メルカプト)ジブチルスズ/ Acetate, S,S'-bis(isooctyl)mercapto-, dibutyltin	32011-18-0					
ジブチルビス(ヒドロジェン 3-メルカプトプロピオナト)スズジメチル /Dibutylbis(methyl 3-mercaptoopropionato-O,S)tin	32011-19-1					
(Z,Z)-6,6-ジブチル-4,8,11-トリオキソ-5,7,12- トリオキソ-6-スズタンナテトラコサ-2,9-ジエン酸デシル/ Dodecyl (Z,Z)-6,6-dibutyl-4,8,11-trioxo-5,7,12-trioxa-6- stannatetradeca-2,9-dienoate	33466-31-8					
ジブチルジブチルスズ/Dibutyltin dibutylstannane	3349-36-8					
ジブチルビス[(1-オキシオクチル)オキシ]スズ/ Dibutylbis(octanoyloxy)stannane	4731-77-5					
3,3'-[(ジブチルスズタニレン)ビス(チオ)]ジプロパン酸ジデシル/ Dodecyl 5,5-dibutyl-9-oxo-10-oxa-4,6-dithia-5- stannahehexadecanoate	51287-83-3					
3,3'-[(ジブチルスズタニレン)ビス(チオ)] ビス[プロピオン酸(2-エチルヘキシル)]/ 2-ethylhexyl 5,5-dibutyl-12-ethyl-9-oxo-10-oxa-4,6-dithia-5- stannahehexadecanoate	53202-61-2					
ジブチルビス(エチル-3-オキソブチル酸-O1',O3)スズ/ Dibutylbis(ethyl 3-oxobutyrato-O1',O3)tin	54581-65-6					
ビス(ベンゾイルオキシ)ジブチルスズ /Bis(benzoyloxy)dibutylstannane	5847-54-1					
ジブチルスズジステアレート/Dibutylbis(stearoyloxy)stannane	5847-55-2					
ビス(2-メチルプロピル)オキシスズ/Disobutyltin oxide	61947-30-6					
ニフ化ビス(トリエチルアミン)ジブチルスズ/ Dibutylbis(triethylamine)dibutyltin	67924-24-7					
2-ヒドロキシエチルイミド-酢酸ジブチルスズ/ Dibutyl[N-(carboxymethyl)-N-(2-hydroxyethyl)glycinate(2-)]tin	68239-46-3					

環境負荷物質一覧<添付1>  
List of Environmentally Hazardous Substances<Attachment 1>

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	全量対象物質	管理対象物質	報告対象物質			
G-18				ジブチルスズ(DBT)化合物/ dibutylstannylene(DBT) compounds	ジブチルジクロロスズ/Stannane, dibutyl(dichloro-	683-18-1
					8,8-ジブチル-3,6,10-トリオクタン-1-フェニル-2,7,9-トリオキサ-8-スタン ナトリチカル-4,7,11Z-ジエン-13-酸カエルゲルエステル/ Benzyl (Z,Z)-8,8-dibutyl-3,6,10-trioxo-1-phenyl-2,7,9-trioxa-8- stannatrideca-4,11-dien-13-oate	7324-74-5
					ジブチルビス[[1-オキソドデシル]オキシ]スズ/ Stannane, dibutylbis[[1-oxododecyl]oxy]-	77-58-7
					2,2-ジブチルジヒドロ-6H-1,3,2-オキサチアスタニン-6-オン/ 2,2-dibutyl-dihydro-6H-1,3,2-oxathia-stannin-6-one	78-06-8
					2,2-ジブチル-1,3,2-オキサチアスタニン-5-オン/ 2,2-dibutyl-1,3,2-oxathia-stannolan-5-one	78-20-6
					ジブチルスズオキシド/Stannane, dibutyl-oxo-	818-08-6
					ペンタエリトール-3-メルカプトプロピオン酸エステル/ Dibutylbis(octadeca-9(Z),12(Z)-dienovloxy)stannane	85391-79-3
					ジブチルビス[[1-オキソイソオクチル]オキシ]スタナン/ Dibutylbis[[1-oxoisooctyl]oxy]stannane	85702-74-5
					ペンタエリトール-3-メルカプトプロピオン酸エステル/ Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienovloxy)stannane	95873-60-2
					4,4'-[[ジブチルスズ(オキシ)ビス]ビス]オキシ	-
					ビス[(2)-4-オキソ-2-ブチン酸]ビス(6-メチルヘプチル)/ 2-Butenoic acid, 4,4'-[[dibutylstannylene]-bis(oxy)]bis[4-oxo-, diisooctyl ester (2,2,7,7-)	25168-21-2
					[[ジブチルスズ(オキシ)ビス]ビス]オキシ(2-エチルヘキシル)エステ ル/8-Oxa-3,5-dithia-4-stannatetradecanoic acid,4,4-dibutyl-10- ethyl-7-oxo-, 2-ethylhexyl ester	10584-98-2
					ジブチルスズジブチラト/Butanoic acid,1,1'-(dibutylstannylene) ester	28660-63-1
					ジイソステアリン酸ジブチルスズ/ Dibutylbis[[1-oxoisooctadecyl]oxy]stannane	59963-28-9
					その他ジブチルスズ化合物/Other dibutylstannylene compounds	-
G-19				ジオクチルスズ(DOT)化合物/ dioctylstannane(DOT) compounds	ジ- <i>n</i> -オクチルスズマレイン酸塩/Di( <i>n</i> -octyl)tin maleate	16091-18-2
					ビス(2 <i>n</i> -チルヘキサン-1-イル)二 2,2'-[[ジオクタン-1-イルスタンナジール] ビス(スルファンジール)]ジアセート/ Bis(2-ethylhexan-1-yl) 2,2'-[[dioctan-1- ylstannanedivyl]bis(sulfanedivyl)]diacetate	15571-58-1
					ジ- <i>N</i> -オクチルスズビス(メチルオクチルチオケチル)酸エステル/ Diisooctyl 2,2'-[[dioctylstannylene]bis(thio)]diacetate	26401-97-8
					ジオクチルスズビス(マレイン酸ノアルキル(C=6~24)エステル)塩 /Diisooctyl 4,4'-[[dioctylstannylene]bis(oxy)]bis[4-oxoisocrotonate]	33568-99-9
					ジクロロジオクチルスズ/Stannane, dichlorodioctyl-	3542-36-7
					ビス(ドデシルチオ)ジオクチルスズ/Bis(dodecylthio)dioctylstannane	22205-30-7
					ビス(ドデカニールオキシ)ジオクチルスズ/Dioctyltin dilaurate	3648-18-8
					ジ- <i>n</i> -オクチルオキシド/Dioctyltin oxide	870-08-6
					その他ジオクチルスズ化合物/Other dioctylstannane compounds	-
					ウラン/Uranium	7440-61-1
					プルトニウム/Plutonium	7440-07-5
					ラドン/Radon	10043-92-2
					アメリシウム/Americium	-
					トリウム/Thorium	7440-29-1
					セシウム/Cesium	7440-46-2
ストロンチウム/Strontium	7440-24-6					
その他の放射性物質/Other radioactive substances	-					
G-21				アルドリン/Aldrin	309-00-2	
G-22				エルドリン/Endrin	72-20-8	
G-23				赤りん/Redphosphorus	-	
G-24				黄りん/Tetraophosphorus	-	
G-25				クロルデン類/Chlordanes	$\alpha$ -クロルデン/ $\alpha$ -Chlordane	5103-71-9
					$\beta$ -クロルデン/ $\beta$ -Chlordane	5103-74-2
					$\gamma$ -クロルデン/ $\gamma$ -Chlordane	9566-34-7
					クロルデン/ 1,2,4,5,6,7,8-Octachloro-2,3,3a,4,7,7a- hexahydro-4,7-methano-1H-indene;	57-74-9
					オクタクロルデン/Chlordane,technical	12789-03-6
					その他のクロルデン類/Chlordanes	-
G-26				N,N'-ジトリル-パラ-フェニレンジアミン,N-トリル-N'-キシリル-パラ- フェニレンジアミン又は N,N'-ジキシリル-パラ-フェニレンジアミン/ N,N'-ditolyl-p-phenylenediamine,N-tolyl-N'-xylyl-p- phenylenediamine and N,N'-dixylyl-p-phenylenediamine	N,N'-ジトリル-パラ-フェニレンジアミン,N-トリル-N'-キシリル-パラ- フェニレンジアミン又は N,N'-ジキシリル-パラ-フェニレンジアミン/ N,N'-ditolyl-p-phenylenediamine,N-tolyl-N'-xylyl-p- phenylenediamine and N,N'-dixylyl-p-phenylenediamine	-
					ダイオキシン類/Dioxins	-
G-27				DDT	50-29-3	
G-28				ディルドリン/Dieldrin	60-57-1	
G-29				トキサフェン/Toxaphene	8001-35-2	
G-30				2,4,6-トリ- <i>t</i> -ブチルフェノール/2,4,6-tri- <i>t</i> -butylphenol	732-26-3	
G-31				ベンジジン/Benzidine	92-67-5	
G-32				ベンジジン及びその塩/benzidine and its salts	ベンジジンイエロ-G;ベンジジンイエロ-OT;AAOT; パルカンファーストイエロ-G;Pigment Yellow14;CI-21095/ Benzidine Yellow G;BenzidineYellow OT;AAOT;Vulcanfast Yellow G;PigmentYellow14;CI-21095	5468-75-7
					ベンジジンイエロ-GR;パルカネイトイエロ-GR;Pigment Yellow13;CI- 21100;BenzidineYellow GR;Pemanent Yellow GR;Pigment Yellow13;CI-21100	5102-83-0
					ベンジジンオレンジGG;パルカンファーストオレンジGG;Pigment Orange14;CI-21165/ Benzidine Orange G;Vulcanfast Orange G;Vulcanfast Orange GN;Pigment Orange G;Pigment Orange13;CI-21110	3520-72-7
					ベンジジンオレンジGG;パルカンファーストオレンジGG;Pigment Orange14;CI-21165/ Benzidine Orange GG;Vulcanfast Orange GG;Pigment Orange14;CI- 21165	-
					その他のベンジジン色素/Other benzidine-base dyes	-
G-33				4-アミノジフェニル及びその塩/4-Aminobiphenyl and its salts	-	
G-34				4-ニトロジフェニル及びその塩/4-nitrodiphenyl	92-93-3	
G-35				ビス(クロロメチル)エーテル/Bis(chloromethyl) ether	-	
G-36				$\beta$ -ナフチルアミン及びその塩/ $\beta$ -Naphthylamine and its salts	-	
G-37				ヘキサクロロベンゼン/Hexa chlorobenzene	118-74-1	
G-38				ベンゼン/Benzene	71-43-2	
G-39				マイルレックス/Mirex	2385-85-5	
G-40				2,2,2-トリクロロ-1,1-ビス(4-クロロフェニル)エタノール (別名:ケルセソル又はジコホル)/Keltthane	115-32-2	
G-41				ヘキサクロロブタ-1,3-ジエン (別名:ヘキサクロロブタジエン、ヘキサクロロ-1,3-ブタジエン)/ Hexachlorobutadiene	87-68-3	
G-42				2-(2H1,2,3-ベンゾトリアゾール-2-イル)-4,6-ジ- <i>t</i> -ブチルフェノ ール/2-benzotriazol-2-yl-4,6-di- <i>t</i> -butylphenol	3846-71-7	
G-43				パーフルオロオクタンスルホン酸(塩を含む)(PFOS)/ Perfluorooctanesulfonic acid(PFOS)	-	
G-44				フマル酸ジメチル(DMF)/Dimethyl Fumarate(DMF)	624-49-7	
G-45				パーフルオロ(オクタン-1-スルホニル)フルオリド(PFOSE)/ Perfluorooctane-1-sulfonyl fluoride(PFOSE)	307-35-7	

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.					
含有禁止物質	全量対象物質	管理物質	報告対象物質								
G-46				ペンタクロロベンゼン/Pentachlorobenzene	ペンタクロロベンゼン/Pentachlorobenzene	608-93-5					
G-47				1,1,1-2,3,4,5-ヘキサクロロシクロヘキサン (別名: α-ヘキサクロロシクロヘキサン) (1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	1,1,1-2,3,4,5,6-ヘキサクロロシクロヘキサン (別名: α-ヘキサクロロシクロヘキサン) (1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	319-84-6					
G-48				1,1,1-2,3,4,5,6-ヘキサクロロシクロヘキサン (別名: β-ヘキサクロロシクロヘキサン) (1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	1,1,1-2,3,4,5,6-ヘキサクロロシクロヘキサン (別名: β-ヘキサクロロシクロヘキサン) (1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane	319-85-7					
G-49				1,1,1-2,3,4,5,6-ヘキサクロロシクロヘキサン (別名: γ-ヘキサクロロシクロヘキサン又はリンデン)/Lindane	1,1,1-2,3,4,5,6-ヘキサクロロシクロヘキサン (別名: γ-ヘキサクロロシクロヘキサン又はリンデン)/Lindane	58-89-9					
G-50				デカクロロペンタシクロ[5,3,0,02,6,03,9,04,8]デカン-5-オン (別名: クロルデコン)/Chlordane	デカクロロペンタシクロ[5,3,0,02,6,03,9,04,8]デカン-5-オン (別名: クロルデコン)/Chlordane	143-50-0					
G-51				テトラブロモビスフェノールA(TBBP-A)/ Tetrabromobisphenol-A(TBBP-A)	テトラブロモビスフェノールA(TBBP-A)/ Tetrabromobisphenol-A(TBBP-A)	79-94-7					
G-52				パーフルオロカーボン(PFC)/Perfluorocarbon(PFC)	パーフルオロカーボン(PFC)/Perfluorocarbon	-					
G-53				ハイドロフルオロカーボン(HFC)/Hydrofluorocarbon(HFC)	ハイドロフルオロカーボン(HFC)/Hydrofluorocarbon	-					
G-54				六フッ化硫黄(SF6)/Sulfur fluoride(SF6)	六フッ化硫黄(SF6)/Sulfur fluoride(SF6)	2551-62-4					
G-55				※フタル酸エステル類/phthalates	ジエチルヘキシルフタレート(DEHP)/Bis(2-ethylhexyl) phthalate	117-81-7					
					ベンジルブチルフタレート(BBP)/Benzylbutylphthalate	85-68-7					
					ジブチルフタレート(DBP)/Dibutyl phthalate	84-74-2					
					フタル酸ジ-n-ヘキシル(DnHP)/Di-n-hexylphthalate	84-75-3					
					ジイソブチルフタレート(Diisobutylphthalate)	84-69-5					
					ジシクロヘキシルフタレート/Dicyclohexylphthalate	84-61-7					
					ジイソオクチルフタレート/Diisooctylphthalate	27554-26-3					
					ジイソニルフタレート(DINP)/Diisononylphthalate	28553-12-0					
					ジイソデシルフタレート(DIDP)/Diisodecylphthalate	26761-40-0					
					フタル酸ビス(2-メトキシエチル)(DBP)/ Bis(2-methoxyethyl) phthalate	117-82-8					
	その他のフタル酸エステル化合物/Other phthalate	-									
G-56				酸化ベリリウム/Beryllium Oxide	酸化ベリリウム/Beryllium Oxide	1304-56-9					
G-57				塩化コバルト(II)/Cobalt dichloride	塩化コバルト(II)/Cobalt dichloride	7646-79-9					
G-58				ホルムアルデヒド/Formaldehyde	ホルムアルデヒド/Formaldehyde	50-00-0					
G-59				発ガン性物質(国際がん学会(IARC)指定のグループ1及びグループ2A)/Carcinogenic substances (Group 1 & 2A specified by IARC)	発ガン性物質(国際がん学会(IARC)指定のグループ1及びグループ2A)/Carcinogenic substances (Group 1 & 2A specified by IARC)	-					
G-60				天然ゴム	-	-					
G-61				ヒ素及びその化合物/Arsenic and its compounds	五酸化二ヒ素/Diarsenic pentoxide 三酸化二ヒ素/Diarsenic trioxide	1303-28-2 1327-53-3					
G-62				塩素及びその化合物/Chlorine and its compounds	塩素及びその化合物/Chlorine and its compounds	-					
G-63				リン酸トリス-2-クロロエチル(TCEP)/ tris(2-chloroethyl)phosphate(TCEP)	リン酸トリス-2-クロロエチル(TCEP)/ Tris(2-chloroethyl)phosphate(TCEP)	115-96-8					
G-64				DBBT類/DBBTs	モノメチルジブチルジフェニルメタン/ Dichloro(dichlorophenyl)methylmethylenbenzene(Ueilec141)	99688-47-8					
					モノメチルジブチルジフェニルメタン/ Monomethyl dichlorodiphenylmethane(Ueilec121 or C22)	76253-60-6					
					その他のDBBT類/Other DBBTs	-					
					クロロエチレン/Chloroethylene	75-01-4					
G-65				クロロエチレン/Chloroethylene	クロロエチレン/Chloroethylene	75-01-4					
G-66				ペンタクロロフェノール(PCP類)	ペンタクロロフェノール ペンタクロロフェノールナトリウム塩 ペンタクロロフェノールの塩又はエステル	87-86-5 131-52-2 -					
G-67*				トリクロロエチレン/Trichloroethylene	トリクロロエチレン/Trichloroethylene	79-01-6					
G-68*				テトラクロロエチレン/Tetrachloroethylene	テトラクロロエチレン/Tetrachloroethylene	127-18-4					
G-69				ジクロロメタン/Dichloromethane	ジクロロメタン/Dichloromethane	79-05-2					
G-70				アジピン酸ビス(2-エチルヘキシル)(DEHA)/ /bis(2-ethylhexyl) adipate(DFHA)	アジピン酸ビス(2-エチルヘキシル)(DEHA)/bis(2-ethylhexyl) adipate	103-23-1					
G-71				アルキルフェノール(炭素数5~9)	アルキルフェノール(炭素数5~9)	-					
G-72				バリウム及びその化合物/ Barium and its compounds	リン酸水素バリウム/Phosphoric acid barium salt(2:3)	13517-08-3					
					過塩素酸バリウム(三水塩)/Barium perchlorate trihydrate	10294-39-0					
					臭素酸バリウム1水和物/Barium bromate monohydrate	10326-26-8					
					無水臭化バリウム/Barium bromide(BaBr2)	10553-31-8					
					ヨウ素酸バリウム/Iodic acid(HIO3) barium salt	10567-69-8					
					アルミン酸バリウム/Aluminum barium oxide(AI2BaO4)	12004-04-5					
					アルミン酸バリウム/Aluminate(AlO3-3) barium(2:3)	12004-05-6					
					ケイ酸バリウム(1:1)/Silicic acid(H2SiO3) barium salt(1:1)	13255-26-0					
					ビス(ヘキサフルオロペンタジオネート)バリウム、テトラグリムアダクト/Bis(hexafluoropentanedionato)barium, tetraglyme adduct	134316-23-7					
					その他のバリウム及びその化合物/Other barium compounds	-					
G-73				セレン及びその化合物/ selenium and its compounds	セレン/Selenium	7782-49-2					
					亜セレン酸/Selenous acid	7783-00-8					
					セレン化水素/Hydrogen selenide	7783-07-5					
					セレン化ナトリウム/Sodium selenide	1313-85-5					
					セレン酸ナトリウム/Sodium selenate	10112-94-4					
					ジメチルセレン化合物/Dimethyl selenide	593-79-3					
					二酸化セレン/Selenium oxide	77446-08-4					
					その他のセレン及びその化合物/Other selenium compounds	-					
G-74				トリクロサン/Triclosan	トリクロサン/Triclosan	3380-34-5					
G-75				多環式芳香族炭化水素類(PAHs)およびそれらを含む混合物/ Polycyclic aromatic hydrocarbons and its mixtures	多環式芳香族炭化水素類(PAHs)およびそれらを含む混合物/ Polycyclic aromatic hydrocarbons and its mixtures	-					
G-76				エチレングリコールモノメチルエーテル、 エチレングリコールモノメチルエーテルとアセテート/ Ethylene Glycol Monomethyl Ether, Ethylene Glycol Monomethyl Ether and it acetate	エチレングリコールモノメチルエーテルとアセテート/ Ethylene Glycol Monomethyl Ether, Ethylene Glycol Monomethyl Ether and it acetate	109-86-4					
G-77				パーフルオロオクタノ酸(PFOA)とその塩、及び、PFOA関連物質 /Perfluorooctanoic acid (PFOA), and PFOA-related substances	パーフルオロオクタノ酸(PFOA)とその塩、及び、PFOA関連物質 /Perfluorooctanoic acid (PFOA), and PFOA-related substances	335-67-1, 376-27-2, 3108-24-5,					
G-78				ビスフェノールA/bisphenol A	ビスフェノールA/Bisphenol A	80-05-7					
G-79				ヘキサブロモシクロドデカン(HBCDD)/ Hexabromocyclododecane(HBCDD) およびすべての主要ジアステレオ異性体	ヘキサブロモシクロドデカン(HBCDD)/ Hexabromocyclododecane(HBCDD) およびすべての主要ジアステレオ異性体	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8 4736-49-5 65701-47-5 138257-17-7 138257-18-8 138257-19-9 169102-57-2 678970-15-5 678970-16-6 678970-17-7					
					Expanded Polystyrene(EPS)	-					
					G-80				フルオロ酢酸類/Fluoroacetic acid	フルオロ酢酸:モノフルオロ酢酸/Acetic acid fluoro-	144-40-9
										フルオロ酢酸ナトリウム:モノフルオロ酢酸ナトリウム/ Acetic acid fluoro-sodium salt	62-74-8
										2-フルオロアセトアミド/Acetamide, 2-fluoro-	640-19-7
										その他のフルオロ酢酸類/Fluoroacetic acid	-

環境負荷物質一覧<添付1>  
List of Environmentally Hazardous Substances<Attachment 1>

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.
有害禁止物質	全量対象物質	管理対象物質	報告対象物質			
G-82				有機燐化合物/Organic phosphorous compound	トリス-(1-アジリジニル)ホスフィンオキシド/ Tris(1-aziridinyl)phosphine oxide	545-55-1
					リン酸トリス(2,3-ジプロポピル)/ Tris(2,3-dibromopropyl)phosphate	126-72-7
					メチルパラチオン/ Methyl parathion	298-00-0
					パラチオン/ Parathion	56-38-2
					トリス(1-アジリジニル)ホスフィンオキシド/ Tris(1-aziridinyl)phosphine oxide	545-55-1
					ジメチル-(ジエチルアミド-1-クロロクロニル)ホスフェイト/ Dimethyl-(diethylamide-1-chlorocrotonyl)-phosphate	13171-21-6
					テトラエチルピロホスフェイト/ Tetraethyl pyrophosphate	107-49-3
					ジメチルエチルメルカプトエチルチオホスフェイト/ Dimethylethylmercapto ethylthiophosphate	8022-00-2
					ジエチルパラニトロフェニルチオホスフェイト	56-38-2
					ジエチル-(ジエチルアミド-1-クロロクロニル)ホスフェイト	13171-21-6
					ジメチルエチルメルカプトエチルチオホスフェイト	8022-00-2
					ジメチルパラニトロフェニルチオホスフェイト	298-00-0
					O-エチル=O-4-ニトロフェニルチオホスホノチオアール	2104-64-5
					テトラエチルピロホスフェイト	107-49-3
					トリス(2,3-ジプロポピル)ホスフェイト	126-72-7
					トリス(1-アジリジニル)ホスフィンオキシド	545-55-1
					ポリリン酸アンモニウム	68333-79-9
					トリブチルホスホニウム	78-51-3
					リン酸トリフェニル	115-86-6
					メチルホスホニウムジメチル	756-79-6
					エチルホスホニウムジエチル	78-39-36
					レジンールビス(ジフェニル)ホスフェイト	57583-54-7
					サイクロヘキサンホスホニウム	61840-22-0
					ビス(2-ヒドロキシエチル)アミノメチルホスホニウムジエチル	2781-11-5
					クレシルジフェニルホスフェイト	26444-49-5
					オクチルジフェニルホスフェイト	115-88-8
					トリス(2-エチルヘキシル)ホスフェイト	78-42-2
					トリオクチルホスフェイト	1806-54-8
					トリエチルホスフェイト	78-40-0
					ホスホニウム塩化物ホスホニウム	7809-51-2
リン酸トリクレジル(トリクレシル)ホスフェイト	1330-78-5					
リン酸トリス(1-メチル-2-クロロエチル)、トリス(1-クロロ-2-プロピル)ホスフェイト、TCPP	13674-84-5					
リン酸トリス(1, 3-ジクロロ-2-プロピル)、トリスジクロロプロピルホスフェイト、TDOPP	13674-87-8					
リン酸トリキシル、TXP	78-43-3					
	25155-23-1					
G-83				過塩素酸塩/Perchloric acid	-	
G-84				N-イソプロピル-N'-フェニルジアンミン/ N-Isopropyl-N'-phenyldiamine	101-72-4	
G-87				9-メトキシ-7H-フルオロ[3,2-g][1]ベンゾピラン-7-オン/ 9-Methoxy-7H-furo[3,2-g][1]benzopyran-7-one	298-81-7	
G-88				エチレンオキシド:酸化エチレン/ethylene oxide	75-21-8	
G-89				硫化水素(H2S)/hydrogen sulfide (H2S)	7783-06-4	
G-90				ジエチルエーテル/Diethyl ether	60-29-7	
G-91				ビスクロロメチルエーテル/Bis(chloromethyl)ether	542-88-1	
G-92				ノニルフェノール(NP)/ノニルフェノールエトキシレート(NPEs)/ Nonylphenol Nonylphenol ethoxylates	25154-52-3 127087-87-0	
G-93				三フッ化窒素/Nitrogen trifluoride(NF3)	7783-54-2	
G-94				ジエチレングリコールモノメチルエーテル/ 2-(2-butoxyethoxy)ethanol	112-34-5	
G-95				ジエチレングリコールモノメチルエーテル/ 2-(2-methoxyethoxy)ethanol	111-77-3	
G-96				ジエチレングリコールモノブチルエーテル(2-butoxyethanol)	111-76-2	
G-97				メチレンビス(フェニルイソシアネート)/ 4,4'-Methylenebis(phenyl isocyanate)	26447-40-5	
G-98				トリス(1-アジリジニル)ホスフィンオキシド/ Tris(1-aziridinyl)phosphine oxide	545-55-1	
G-99				テトラクロロフェノール/Tetrachlorophenol	58-90-2	
G-100				テトラフルオロメタン/Tetrafluoromethane(GF4)	75-73-0	
G-101				ポリ塩化ビニル(PVC)/Polyvinyl chloride (PVC)	9002-86-2	
G-102				1,2-ジクロロプロパン/1,2-Dichloropropane	78-87-5	
G-103				シス-1,2-ジクロロエチレン/CIS-1,2-DICHLOROETHYLENE	156-59-2	
G-104				1,3-ジクロロプロペン/1,3-Dichloropropene	542-75-6	
G-105				2,4,6-トリタータリルフェニルフェノール/TTBP	732-263	
G-106				シクロトタン	249-82-2	
G-107				HCFC-233 1,1,1-trichloro-3,3,3-trifluoropropane(C3H2F3Cl3)	7125-84-0	
G-108				HCFC-262 monochlorodifluoropropane(C3H5F2Cl)	421-02-03	
G-109				Imidazolidine-2-thione-2-imidazoline-2-thiol(ETU)	96-45-7	
G-110				Alpha-Naphthylamine	134-32-7	
G-111				2-Acetylaminofluorene	53-96-3	
G-112				4-Dimethyl-aminoazobenzene	60-11-7	
G-113				Methylethyl ketone(MEK)	78-93-3	
G-114				Polyvinylchloride(PVC)	9002-86-2	
G-115				Tantalum	7440-25-7	
G-116				Tungsten	7440-33-7	
G-117				クロルピリホス/phosphorothioic acid,O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl)ester	2921-88-2	
G-118				クロルピリホス/phosphorothioic acid,O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl)ester	143-50-0	
G-119				N-フェニルベンゼンジアンミンとスチレン及び2,4,4-トリメチルペンタンの反応生成物/BNST	68921-45-9	
G-120				エンドスルファン/Endsulfan	115-29-7 959-98-8 33213-65-9	
G-121				Carbon nanofibres	7782-42-5	
G-122				Carbon nanotubes (CNTs)	308068-56-6	
G-123				Copper(I) oxide (Cu2O) nanoparticles	1317-39-1	
G-124				Fluorographene (fluorinated graphene) nanoparticles	Fluorographene (fluorinated graphene) nanoparticles	
G-125				Fullerene nanoparticles	131159-39-2	
G-126				Graphene nanoparticles (double-sided hydrogenated graphene)	1221743-01-6	
G-127				Graphene nanoparticles	1034343-98-0	
G-128				Indium oxide nanoparticles	1312-43-2	
G-129				Jordisite (MoS2) nanoparticles	12068-92-7	
G-130				Melonite (NiTe2) nanoparticles	12035-58-4	
G-131				Molybdenum disulfide (MoS2) nanoparticles	1309-56-4	
G-132				Molybdenum telluride (MoTe2) nanoparticles	12058-20-7	
G-133				Molybdenum(IV) sulfide (MoS2) nanoparticles	1317-33-5	
G-134				Nano diamond	7782-40-3	
G-135				Nanoclav	1302-78-9	
G-136				Nanoclays modified w/ organic salts such as tetra-alkylammonium salt	Nanoclays modified w/ organic salts such as tetra-alkylammonium salt	
G-137				Nanosilver	7440-22-4	
G-138				Nanotubes, nano diamond, nano silver	Nanotubes, nano diamond, nano silver	
G-139				Nickel(II) oxide(NiO) nanoparticles	1313-99-1	
G-140				Nickel telluride (NiTe2) nanoparticles	12035-58-5	
G-141				Other nanoparticle substances	Other nanoparticle substances	

環境負荷物質一覧<添付1>  
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ラック	物質群 / Substance group	物質名 / Substance	CAS No.
Q-142	Quantum dot phosphorus	Quantum dot phosphorus	
Q-143	Rutile (TiO2) nanoparticles	Rutile (TiO2) nanoparticles	1317-80-2
Q-144	Silicon dioxide nanoparticles/ex. of use: conductive additives, antistatic/microbial paint coatings, toners, touch display plastics	Silicon dioxide nanoparticles/ex. of use: conductive additives, antistatic/microbial paint coatings, toners, touch display plastics	7631-86-9
Q-145	Silver nanowires	Silver nanowires	
Q-146	Tantalum sulfide (TaS2) nanoparticles	Tantalum sulfide (TaS2) nanoparticles	12143-72-5
Q-147	Tungsten sulfide (WS2) nanoparticles	Tungsten sulfide (WS2) nanoparticles	12138-09-9
Q-148	Tungstenite (WS2) nanoparticles	Tungstenite (WS2) nanoparticles	12067-21-9
Q-149	Yttrium Oxide (Y2O3) nanoparticles	Yttrium Oxide (Y2O3) nanoparticles	1314-36-9
Q-150	Zinc Oxide (ZnO) nanoparticles	Zinc Oxide (ZnO) nanoparticles	
Q-151	Zincite (ZnO) nanoparticles	Zincite (ZnO) nanoparticles	20431-17-8
Q-152	N-ニトロソジメチルアミン/N-NITROSODIMETHYLAMINE	N-ニトロソジメチルアミン/N-NITROSODIMETHYLAMINE	62-75-9
Q-153	1,2,4,5-テトラクロロベンゼン/1,2,4,5-Tetrachlorobenzene	1,2,4,5-テトラクロロベンゼン/1,2,4,5-Tetrachlorobenzene	12408-10-5 84713-12-2
Q-154	1,2-ジクロロエタン/1,2-Dichloroethane	1,2-ジクロロエタン/1,2-Dichloroethane	107-06-2
Q-155	4-アミノフェニル BiPhENyl-4-amine	4-アミノフェニル BiPhENyl-4-amine	92-67-1
Q-156	ヒドロキノン/1,4-Benzenediol	ヒドロキノン/1,4-Benzenediol	123-31-9
Q-157	2-メトキシエタノール/2-Methoxyethanol	2-メトキシエタノール/2-Methoxyethanol	109-86-4
Q-158	ブロモクロロメタン/Bromochloromethane	ブロモクロロメタン/Bromochloromethane	74-97-5
Q-159	クロロアルカン(C14-17)/Chloroalkanes C14-17	クロロアルカン(C14-17)/Chloroalkanes C14-17	85535-85-9
Q-160	N,N'-ジトリルパラフェニレンジアミン/N,N'-Bis(methylphenyl)-1,4-benzenediamine	N,N'-ジトリルパラフェニレンジアミン/N,N'-Bis(methylphenyl)-1,4-benzenediamine	27417-40-9
Q-161	N,N' ジトリルパラフェニレンジアミン, NトリルN' キシリルパラフェニレンジアミン又はN,N' ジキシリルパラフェニレンジアミン /NDIMETHYLPHENYLNNDIMETHYLPHENYL14PHENYLENEDIAMINE	N,N' ジトリルパラフェニレンジアミン, NトリルN' キシリルパラフェニレンジアミン又はN,N' ジキシリルパラフェニレンジアミン /NDIMETHYLPHENYLNNDIMETHYLPHENYL14PHENYLENEDIAMINE	28726-30-9
Q-162	N-トリル-N'-キシリルパラフェニレンジアミン /NMONOMETHYLPHENYLNNDIMETHYLPHENYL14PHENYLENEDIAMINE	N-トリル-N'-キシリルパラフェニレンジアミン /NMONOMETHYLPHENYLNNDIMETHYLPHENYL14PHENYLENEDIAMINE	70290-05-0
Q-163	2-Methoxyethyl acetate	2-Methoxyethyl acetate	110-49-6
Q-164	アジ化ナトリウム/Sodium Azide	アジ化ナトリウム/Sodium Azide	26628-22-8
Q-165	テトラクロロベンゼン/Tetrachlorobenzene.all members	テトラクロロベンゼン/Tetrachlorobenzene.all members	634-66-2
Q-166	N-ニトロソジメチルアミン/N-Nitroso dimethyl amine	N-ニトロソジメチルアミン/N-Nitroso dimethyl amine	62-75-9
Q-167	メタノール/Methanol	メタノール/Methanol	67-56-1
Q-168	過塩素酸アンモニウム/過塩素酸塩類/Ammonium Perchlorate/Perchlorates.all members	過塩素酸アンモニウム/過塩素酸塩類/Ammonium Perchlorate/Perchlorates.all members	7790-98-9
Q-169	メチルジメトン/Methyl Demeton	メチルジメトン/Methyl Demeton	919-86-8
Q-170	EPN	EPN	2104-64-5
Q-171	エチルホスホン酸 ジエチル/DIETHYL ETHYL PHOSPHONATE	エチルホスホン酸 ジエチル/DIETHYL ETHYL PHOSPHONATE	78-38-5
Q-172	リム酸トリス(1,3-ジクロロ-2-プロピル)/(TDGPP)	リム酸トリス(1,3-ジクロロ-2-プロピル)/(TDGPP)	13674-87-8
Q-173	過塩素酸リチウム/Lithium perchlorate	過塩素酸リチウム/Lithium perchlorate	7781-03-9
Q-174	ヘキサフルオロ硫黄(VI)/Sulfur hexafluoride	ヘキサフルオロ硫黄(VI)/Sulfur hexafluoride	2551-62-4
Q-175	酸化二窒素/NITROUS OXIDE	酸化二窒素/NITROUS OXIDE	10024-97-2
Q-176	1-エチル-2-ピロリドン/N-Ethyl-2-pyrrolidone	1-エチル-2-ピロリドン/N-Ethyl-2-pyrrolidone	2687-91-4
Q-177	シマジン/Simazine	シマジン/Simazine	122-34-9
Q-178	ヒドラジン/Hydrazine	ヒドラジン/Hydrazine	7803-57-8 302-01-2
Q-179	Diphenylamines,Substituted (SDPA)	Benzenamine, 4-octyl-N-(4-octylphenyl)- Benzenamine, 4-octyl-N-phenyl- Benzenamine, 4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]- Benzenamine, 4-(1,1,3,3-tetramethylbutyl)-N-[4-(1,1,3,3-tetramethylbutyl)phenyl]- Benzenamine, 4-nonyl-N-(4-nonylphenyl)- Benzenamine, ar-octyl-N-(octylphenyl)- Benzenamine, ar-nonyl-N-phenyl- Benzenamine, ar-nonyl-N-(nonylphenyl)- Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Benzenamine, N-phenyl-, styrenated Benzenamine, 2-ethyl-N-(2-ethylphenyl)-, (tripropenyl) derivatives Benzenamine, N-phenyl-, (tripropenyl) derivatives Benzenamine, N-phenyl-, reaction products with isobutylene and 2,4,4-trimethylpentene	101-67-7 4175-37-5 10081-67-1 15721-78-5 24925-59-5 26603-23-6 27177-41-9 36878-20-3 68411-46-1 68442-68-2 68608-77-5 68608-79-7 184378-08-3
Q-180	臭化メチル/Methyl bromide	臭化メチル/Methyl bromide	74-83-9
Q-181	1, 1, 2-トリクロロエタン/1,1,2-Trichloroethane	1, 1, 2-トリクロロエタン/1,1,2-Trichloroethane	79-00-5
Q-182	炭化水素類/Hydro-Carbons	ベンゾ(a)ピレン/Benzol(a)pyrene	50-32-8
Q-183	鉱物繊維(天然および合成)、連続長繊維を除く/Mineral fibres (natural or synthetic) except continuous filament fibres	耐火性セラミック繊維/Ceramic fibers	142844-00-6
Q-184	Chloroform/クロロホルム	Chloroform/クロロホルム	67-66-3
Q-185	Benzophenone/ベンゾフェノン	Benzophenone/ベンゾフェノン	119-91-9
Q-186	塩素化炭化水素類	1,1-dichloro-ethylene/1,1-ジクロロエチレン	75-35-4
Q-187	塩素化炭化水素類	PENTACHLOROETHANE/ペンタクロロエタン	76-01-7
Q-188	塩素化炭化水素類	Dichloromethane/塩化メチレン	75-09-2
Q-189	塩素化炭化水素類	Tetrachloroethane/テトラクロロエタン	25322-20-7
Q-190	塩素化炭化水素類	1,1,2,2-Tetrachloroethane/1,1,2,2-テトラクロロエタン	79-34-5
Q-191	塩素化炭化水素類	1,1,2-Trichloroethane/1,1,2-トリクロロエタン	79-00-5
Q-192	特定アミン2種及びそれを分解生成するアミン類	2-Naphthylamine/2-ナフチルアミン及びその塩類	91-59-8
Q-193	ニトロ化合物(芳香族)	4-Nitrophenyl/4-ニトロフェニル及びその塩	92-93-3
Q-194	Benzotrichloride [benzylidene trichloride]/ベンゾトリクロライド [(トリクロロメチル)ベンゼン] [ベンジリジニウムトリクロライド]	Benzotrichloride [benzylidene trichloride]/ベンゾトリクロライド [(トリクロロメチル)ベンゼン] [ベンジリジニウムトリクロライド]	98-07-7
Q-195	Heptachlor/ヘプタクロル	Heptachlor/ヘプタクロル	76-44-8
Q-196	Lacey Act and EU Timber Regulation/レイシー法およびEU木材規則	Lacey Act and EU Timber Regulation/レイシー法およびEU木材規則	-
Q-197	Methyl-phenol compounds/メチル・フェノール化合物	Methyl-phenol compounds/メチル・フェノール化合物	95-48-7 106-44-5 108-39-4 1319-77-3
Q-198	Aminoethyl ethanolamine/アミノエチル・エタノールアミン	Aminoethyl ethanolamine/アミノエチル・エタノールアミン	111-41-1
Q-199	n-Hexane/n-ヘキサン	n-Hexane/n-ヘキサン	110-54-3
Q-200	有機塩素系溶剤/Chlorinated solvents	その他の有機塩素系溶剤/Other Chlorinated solvents	
Q-201	トルエン/Toluene	トルエン/Toluene	108-88-3
Q-202	N-メチル-2-ピロリドン/1-methyl-2-pyrrolidone	N-メチル-2-ピロリドン/1-methyl-2-pyrrolidone	872-50-4
Q-203	シアナ化合物	Acrylonitrile/アクリロニトリル	107-13-1
Q-204	アルミノケイ酸塩耐火セラミック繊維(RCF)/ Aluminosilicate, Refractory Ceramic Fibres (RCF)	アルミノケイ酸塩耐火セラミック繊維(RCF)/ Aluminosilicate, Refractory Ceramic Fibres (RCF)	-
Q-205	ジルコニアアルミ/珪酸塩耐火セラミック繊維(Zr-RCF)/ Zirconia Aluminosilicate, Refractory Ceramic Fibres(Zr-RCF)	ジルコニアアルミ/珪酸塩耐火セラミック繊維(Zr-RCF)/ Zirconia Aluminosilicate, Refractory Ceramic Fibres(Zr-RCF)	-
Q-206	(4-CHLOROPHENYL)(CYCLOPROPYL)METHANONE O-(4-NITROBENZYL)OXIME	(4-CHLOROPHENYL)(CYCLOPROPYL)METHANONE O-(4-NITROBENZYL)OXIME	94097-88-8
Q-207	硫酸モリブデン酸クロム酸鉛(CIピグメントレッド104)	硫酸モリブデン酸クロム酸鉛(CIピグメントレッド104)	-
Q-208	CIピグメントイエロー34	CIピグメントイエロー34	-
Q-209	クロム酸八水酸化亜鉛	クロム酸八水酸化亜鉛	-
Q-210	ヒドロキシオクタン-2-オール/ヒドロキシオクタン-2-オール	ヒドロキシオクタン-2-オール/ヒドロキシオクタン-2-オール	-
Q-211	短鎖型塩化パラフィン(SCCPs)	短鎖型塩化パラフィン(SCCPs)	85535-84-8
Q-212	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	
Q-213	ビスフェノール-F/bisphenol F	ビスフェノール-F/bisphenol F	620-92-8
Q-214	ビスフェノール-S/bisphenol S	ビスフェノール-S/bisphenol S	80-09-1
Q-215	2,2'-ジヒドロキシジフェニルメタン	2,2'-ジヒドロキシジフェニルメタン	2467-02-9
Q-216	ジヒドロキシジフェニルメタン	ジヒドロキシジフェニルメタン	1333-16-0
Q-217	リン化インジウム	リン化インジウム	22398-80-7
Q-218	臭化n-プロピル(nPB)	臭化n-プロピル(nPB)	106-94-5
Q-219	揮発性有機化合物(VOC)	揮発性有機化合物(VOC)	-
Q-219	リン系難燃添加剤	リン酸イソデシルジフェニル リン酸メタリン リン酸トリメチルホスホリク酸 リン酸トリ-n-オクチル リン酸トリ(4-tert-ブチルフェニル) ピロリン酸ピベラジン 赤りん/Redphosphorus リン酸トリ-n-オクチル リン酸トリ-n-オクチル リン酸トリ-n-オクチル リン酸トリ(2-メチルエチル) リン酸トリ(2-メチルエチル)	29761-21-5 41583-09-8 55586-30-9 563-04-2 78-33-1 66034-17-1 7723-14-0 78-30-8 78-32-0 78-40-0 78-42-2 78-51-3

環境負荷物質一覧<添付1>  
List of Environmentally Hazardous Substances<Attachment 1>

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	全数対象物質	管理対象物質	報告対象物質			
G-220				殺生物剤	殺生物剤	
G-221				内分泌かく乱化学物質(EDC)	Triphenyl phosphate(TPHP)	115-96-6
					Butylated hydroxytoluene	128-87-0
					Ziram	137-30-4
					Metam sodium	137-42-8
					Thiram	137-26-8
					Zineb	12122-67-7
					4-nitrophenol	100-02-7
					Resorcinol	108-46-3
					Tert-butylhydroxyanisole(BHA)	25013-16-5
					4,4'-Dihydroxybenzophenone	611-99-4
3-Benzylidene camphor 3-BC	15087-24-8					
G-222				ナノマテリアル	-	
G-223				ペルフルオロアルキル物質とポリフルオロアルキル物質(PFAS)	ペルフルオロ酢酸	375-22-4
					ペルフルオロペンタン酸	2706-90-3
					ペルフルオロヘキサン酸	307-24-4
					ペルフルオロヘプタン酸	375-85-9
					ペルフルオロオクタン酸	375-95-1
					ペルフルオロノナン酸	335-76-2
					ペルフルオロデカン酸	2059-94-9
					ペルフルオロウンデカン酸	307-55-1
					ペルフルオロドodeカン酸	72629-94-8
					ペルフルオロペンタデカン酸	375-73-5
					ペルフルオロヘキサデカン酸	2706-91-4
					ペルフルオロヘプタデカン酸	355-46-4
					ペルフルオロオクタデカン酸	375-92-8
					ペルフルオロノニナデカン酸	68259-12-1
					PFDS	335-77-3, 126105-34-8
					6:2PFOS	27619-97-2
					PF-3,7-DMOA	172155-07-6
					HPFHxA	1546-95-8
					H2PFDA-P(G4H9)4	882489-14-7
					H4PFUnA	34598-33-9
					L-PFHxA	68555-66-8
					L-PFDS	2806-19-7
					PFDS-K	2906-16-8
					4:2 FTOH	2043-47-2
					6:2 FTOH	647-42-7
					6:2 FTA	17527-29-6
					PFDS-NH4	67906-42-7
					PFODA	/
					PFHxDA	67905-19-5
					PFHxA-NH4	21615-47-4
PFHxA-H2O	59933-66-3					
PFHxA-K	60270-55-5					
6:2 FTMAC	2144-53-8					
N-MeFOSAA	2355-31-9					
	その他のPFAS類/Other PFAS	-				
G-224				PFHxS(ペルフルオロヘキサデカン酸)とその塩及びPFHxS関連物質	PFHxS(ペルフルオロヘキサデカン酸)とその塩及びPFHxS関連物質	
G-225				Decabromodiphenyl ether (decaBDE)	Decabromodiphenyl ether (decaBDE)	1163-19-5
G-226				Phenol, isopropylated phosphate (3:1) (6PIP (3:1))	Phenol, isopropylated phosphate (3:1) (6PIP (3:1))	68937-41-7
G-227				2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3
G-228				Pentachlorothiophenol (PCTP)	Pentachlorothiophenol (PCTP)	133-49-3
G-229				Hexachlorobutadiene (HCBD)	Hexachlorobutadiene (HCBD)	87-68-3
G-230				ペルフルオロカルボン酸(C9~C20 PFCAs)とその塩、及びC9~C20PFCAs関連物質	ペルフルオロカルボン酸(C9~C20 PFCAs)とその塩、及びC9~C20PFCAs関連物質	
G-231				Alkyl Phenol derivatives, selected	Alkyl Phenol derivatives, selected	121158-58-5
					1801269-80-6	
					1801269-77-1	
					210555-94-5	
					74499-35-7	
G-232				芳香族アミン類/Aromatic amines,selected	3165-93-3,	
					39156-41-7,	
					548-62-9,	
569-61-9						
G-233				デカブロモジフェニルエタン / Decabromodiphenylethane (DBDPE)	デカブロモジフェニルエタン / Decabromodiphenylethane (DBDPE)	84852-53-9
G-234				デクロラプラス / Dechlorane Plus (DP)	デクロラプラス / Dechlorane Plus (DP)	13560-89-9
G-235				塩化水素 / Hydrogen chloride	塩化水素 / Hydrogen chloride	135821-03-3
G-236				N,N'-エチレンジチオカルバミン酸マンガネ(マンネブ) / N,N'-Ethylenebis(dithiocarbamate manganese)(Maneb)	N,N'-エチレンジチオカルバミン酸マンガネ(マンネブ) / N,N'-Ethylenebis(dithiocarbamate manganese)(Maneb)	135821-74-8
G-237				ヘンジアネート / Isocyanate	ヘンジアネート / Isocyanate	7647-01-0
G-238				オクタクロロスチレン / Octachlorostyrene	オクタクロロスチレン / Octachlorostyrene	21000-82-3
Z-1				ポリ塩化ビニル(PVC)/Polyvinyl chloride (PVC)	ポリ塩化ビニル(PVC)/Polyvinyl chloride (PVC)	29082-74-4
Z-2				ヘキサクロロシクロヘキサン/Hexachlorocyclohexane(HCH)	ヘキサクロロシクロヘキサン/Hexachlorocyclohexane(HCH)	67-72-1
Z-3				ヘキサクロロシクロヘキサン/Hexachlorocyclohexane(HCH)	ヘキサクロロシクロヘキサン/Hexachlorocyclohexane(HCH)	808-73-1
Z-4				ヘキサクロロ-1,3-ブタジエン/Hexachloro-1,3-butadiene	ヘキサクロロ-1,3-ブタジエン/Hexachloro-1,3-butadiene	87-68-3
Z-5				シクロヘキサン/Cyclohexane	シクロヘキサン/Cyclohexane	110-82-7
Z-6				クロロベンゼン/Chlorobenzene	クロロベンゼン/Chlorobenzene	108-90-7
Z-7				フラン/Furan	フラン/Furan	110-00-9
Z-8				エチルベンゼン/Ethylbenzene	エチルベンゼン/Ethylbenzene	100-41-4
Z-9				メチレンジチオ(4,1-フェニレン)ジイソシアネート/Methylenebis(4,1-phenylene)diisocyanate(MDI)	メチレンジチオ(4,1-フェニレン)ジイソシアネート/Methylenebis(4,1-phenylene)diisocyanate(MDI)	101-68-8
Z-10				1,2,3-ベンゾトリアゾール/1,2,3-Benzotriazole	1,2,3-ベンゾトリアゾール/1,2,3-Benzotriazole	95-14-7
Z-11				(過塩素酸)アニオン/Perchlorate	(過塩素酸)アニオン/Perchlorate	14797-73-0
Z-12				1,1-ジクロロエチレン/Dichloroethene (d)chloride	1,1-ジクロロエチレン/Dichloroethene (d)chloride	75-35-4
Z-13				ジクロロメタン/Dichloromethane	ジクロロメタン/Dichloromethane	75-09-2
Z-14				カルボン酸-カルボン酸エステル	Colophony(Rosin)/コロホニウム(ロジン)	8050-09-7
Z-15				Trichlorophenol (TriCP)	Pentachlorophenol	87-86-5
					2,3,5,6-Tetrachlorophenol	935-95-5
					2,3,4,6-Tetrachlorophenol	58-90-2
					2,3,4,5-Tetrachlorophenol	4901-51-3
					2,3,4-Trichlorophenol	15950-66-0
					2,3,5-Trichlorophenol	933-78-8
					2,3,6-Trichlorophenol	933-75-5
					2,4,5-Trichlorophenol	95-95-4
					2,4,6-Trichlorophenol	88-06-2
					3,4,5-Trichlorophenol	909-19-8
					2,3-Dichlorophenol	576-24-9
					2,4-Dichlorophenol	120-83-2
					2,5-Dichlorophenol	583-78-8
					2,6-Dichlorophenol	87-65-0
					3,4-Dichlorophenol	95-77-2
					3,5-Dichlorophenol	591-35-5
					2-Chlorophenol	95-57-8
					3-Chlorophenol	108-43-0
4-Chlorophenol	106-48-9					
Z-16				Tris(2-chloroethyl)phosphate (TCEP)	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8
Z-17				2-Phenylphenol (OPP)	2-Phenylphenol (OPP)	90-47-7
Z-18				4-Chloro-3-methylphenol (CMC/GMK)	4-Chloro-3-methylphenol (CMC/GMK)	59-50-7
Z-19				2-(Thiocyanomethylthio)benzothiazol (TCMTB)	2-(Thiocyanomethylthio)benzothiazol (TCMTB)	21564-17-0
Z-20				2-octylisothiazol-3(2H)-on (OIT)	2-octylisothiazol-3(2H)-on (OIT)	26530-20-1
Z-21				Dimethylfumarate (DMFu)	Dimethylfumarate (DMFu)	624-48-7

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ランク		物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	K-1	ベリリウム及びその化合物/Beryllium and its compounds	ベリリウム及びその化合物/Beryllium and its compounds	-
	K-2	ビスマス及びその化合物/Bismuth and its compounds	ビスマス及びその化合物/Bismuth and its compounds	-
	K-3	ニッケル及びその化合物/Nickel and its compounds	ニッケル及びその化合物/Nickel and its compounds	-
全数対象物質	K-4	ホウ酸・特定ホウ酸ナトリウム/Boric acid, specific sodium borates	ホウ酸/Boric acid	10043-35-3
			七酸化二ナトリウム四ホウ素五水和物; 四ホウ酸二ナトリウム無水物/Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide pentahydrate	12179-04-3
			七酸化二ナトリウム四ホウ素; 四ホウ酸二ナトリウム無水物/Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide	1300-43-4
			四ホウ酸ナトリウム十水物; 四ホウ酸二ナトリウム無水物/Disodium tetraborate, anhydrous; Disodium tetraborate decahydrate; Borax	1303-96-4
			七酸化二ナトリウム四ホウ素水和物; 四ホウ酸二ナトリウム水和物/Tetraboron disodium heptaoxide hydrate	12267-73-1
管理対象物質	K-5	4-(1,1,3,3-テトラメチルブチル)フェノール/ 4-(1,1,3,3-tetramethylbutyl)phenol	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
	K-6	ビス(2-メトキシエチル)エーテル/Bis(2-methoxyethyl) ether	ビス(2-メトキシエチル)エーテル/Bis(2-methoxyethyl) ether	111-96-6
含有禁止物質	K-7	N,N-ジメチルアセトアミド(DMAC)/N,N-dimethylacetamide (DMAC)	N,N-ジメチルアセトアミド(DMAC)/N,N-dimethylacetamide (DMAC)	127-19-5
	K-8	酸化スチレン(エポキシスチレン)/Styrene oxide (Epoxy styrene)	酸化スチレン(エポキシスチレン)/Styrene oxide (Epoxy styrene)	90-09-3
含有禁止物質	K-9	タリウムおよびその化合物/Thallium and its compounds	タリウムおよびその化合物/Thallium and its compounds	-
	K-10	テトラメチルチオアルキルジカルボニルジアミド(((H2N)C(S))2S2)/thioperoxydicarbonic diamide(((H2N)C(S))2S2), tetramethyl-	テトラメチルチオアルキルジカルボニルジアミド(((H2N)C(S))2S2)/thioperoxydicarbonic diamide(((H2N)C(S))2S2), tetramethyl-	137-26-8
含有禁止物質	K-11	リン酸トリメチル(trimethylphosphate)	リン酸トリメチル/Trimethylphosphate	512-56-1
	K-12	1,2-エタンジオール; 1,2-ジヒドロエタン; sym-ジオキシエタン; エチレンアルコール-C2H6O2	1,2-エタンジオール; 1,2-ジヒドロエタン; sym-ジオキシエタン; エチレンアルコール-C2H6O2	107-21-1
含有禁止物質	K-13	芳香族系及び炭化水素系溶剤	芳香族系及び炭化水素系溶剤	-
	K-14	界面活性剤/ Surfactants(DTDMAC, DQCMAC, DSDMAC, and DHTDMAC)	界面活性剤/ Surfactants(DTDMAC, DQCMAC, DSDMAC, and DHTDMAC)	-
含有禁止物質	K-15	有機臭素系溶剤/Organic brominated solvents	有機臭素系溶剤/Organic brominated solvents	-
	K-16	有機塩素系溶剤/Chlorinated solvents	有機臭素系溶剤/Other organic brominated solvent	-
含有禁止物質	K-17	特定アミン及び特定アミンを生成するアミン化合物/Azo dye/pigment forming specified amine compounds	1,2-ジクロロエタン/1,2-dichloroethane	-
	K-18	高温コールタールピッチ/Coal tar pitch, high temperature	特定アミン及び特定アミンを生成するアミン化合物/Azo dye/pigment forming specified amine compounds	-
含有禁止物質	K-19	鉱物繊維(天然および合成)、連続長繊維を除く/Mineral fibres (natural or synthetic) except continuous filament fibres	高濃度コールタールピッチ/Pitch, coal tar, high temperature	65996-93-2
			アルミニウムケイ酸塩、耐火セラミックス繊維/Aluminosilicate, refractory ceramic fibres	-
含有禁止物質	K-20	2,4-ジニトロトルエン/2,4-dinitrotoluene	ジルコニアアルミニウムケイ酸塩、耐火セラミックス繊維/Zirconia aluminosilicate, refractory ceramic fiber	329211-92-9
	K-21	バイオサイドコーティングおよびバイオサイド添加物/Biocidal coatings/biocidal additives	Aluminium Chloride, basic reaction products with Silica	675106-31-7
含有禁止物質	K-22	アクリルアミド/Acrylamide	結晶質クリスタリット/Cristobalite	14464-46-1
	K-23	揮発性有機化合物(VOC)/Volatile organic compounds	2,4-ジニトロトルエン/2,4-dinitrotoluene	121-14-2
含有禁止物質	K-24	ヒドラジン/Hydrazine	1,2-ベンゾイソチアゾール-3(2H)-オン/1,2-benzisothiazoline-3-one	2634-33-5
	K-25	メチルピロリジン/1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	ジウロン/diuron	330-54-1
含有禁止物質	K-26	アミンとホルムアルデヒドの重合物/Formaldehyde oligomerization products with aniline	アクリルアミド/Acrylamide	79-06-1
	K-27	4-(2,4,4-トリメチルペンタ-2-イル)フェノール/4-(1,1,3,3-tetramethylbutyl)phenol	揮発性有機化合物(VOC)/Volatile organic compounds	-
含有禁止物質	K-28	N,N-ジメチルアセトアミド/N,N-dimethylacetamide	ヒドラジン/Hydrazine	7803-57-8
	K-29	3,3-ビス(4-ヒドロキシフェニル)イソペンゾフラン-1(3H)-オン/Phenolphthalein	メチルピロリジン/1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	302-01-2
含有禁止物質	K-30	N-ニトロソアミン/N-nitrosamines	メチルピロリジン/1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	872-50-4
	K-31	塩化ビニル(モノマー)/Vinyl chloride monomer	アミンとホルムアルデヒドの重合物/Formaldehyde oligomerization products with aniline	25214-70-4
含有禁止物質	K-32	指定有機顔料/Specified organic pigment	3-ヒドロキシ-4-[(2,5-ジクロロフェニル)アゾ]-N-フェニルナフタレン-2-カルボアミド (C.I.ピグメントレッド2)/4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide (pigment red 2)	6041-94-7
			2,9-ジメチルキノリン[2,3-b]アクリジン-7,14(5H,12H)-ジオン2,9-ジメチル-5,12-ジヒドロキノリン[2,3-b]アクリジン-7,14(5H,12H)-ジオン(ピグメントレッド122)/quino[2,3-b]acridine-7,14-dione, 5,12-dihydro-2,9-dimethyl- (pigment red 122)	980-26-7
含有禁止物質	K-33	コバルト及びその化合物/Cobalt and its compounds	2-[(2,5-ジクロロフェニル)ジアゼニル]-N-(6-エトキシ-1,3-ベンゾチアゾール-2-イル)-3-オキソブタンアミド (ピグメントイエロー165)/2-[(2,5-Dichlorophenyl)diazenyl]-N-(6-ethoxy-1,3-benzothiazol-2-yl)-3-oxobutanamide (C.I. pigment yellow 165)	38489-25-7
			N,N-ビス(2,4-ジメチルフェニル)-3'-ジオキソ-2,2'-[(3,3'-ジクロロフェニル)-4,4'-ジイル]ビス(ジアゼニル)ジブタンアミド (ピグメントイエロー13)/N,N-Bis(2,4-dimethylphenyl)-3'-dioxo-2,2'-[(3,3'-dichlorophenyl)-4,4'-diyl]bis(diazenyl)di-butanamide	5102-83-0
含有禁止物質	K-34	銅及びその化合物/Copper and its compounds	Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxo-(ピグメントイエロー83)/butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxo-	5567-15-7
			コバルト及びその化合物/Cobalt and its compounds	-
含有禁止物質	K-35	錳及びその化合物/Manganese and its compounds	コバルト及びその化合物/Cobalt and its compounds	-
	K-36	マンガン及びその化合物/Manganese and its compounds	錳及びその化合物/Manganese and its compounds	-
含有禁止物質	K-37	金/Gold and its compounds	マンガン及びその化合物/Manganese and its compounds	-
	K-38	マグネシウム/Magnesium and its compounds	金/Gold and its compounds	-
含有禁止物質	K-39	パラジウム/Palladium and its compounds	パラジウム/Palladium and its compounds	-
	K-40	銀/Silver and its compounds	パラジウム/Palladium and its compounds	-
含有禁止物質	K-41	テルル/Tellurium and its compounds	銀/Silver and its compounds	-
	K-42	亜鉛/Zinc and its compounds	テルル/Tellurium and its compounds	-
含有禁止物質	K-43	クロム/Chromium and its compounds	亜鉛/Zinc and its compounds	-
	K-44	タンタル/Tantalum and its compounds	クロム/Chromium and its compounds	-
含有禁止物質	K-45	アルミニウム及びその化合物/Aluminium and its compounds	タンタル/Tantalum and its compounds	-
	K-46	三価クロム化合物/Chromium (III) Compounds	アルミニウム及びその化合物/Aluminium and its compounds	-
含有禁止物質	K-47	ガリウム及びその化合物/Gallium and its compounds	三価クロム化合物/Chromium (III) Compounds	-
	K-48	ポリスチレン/Polystyrene	ガリウム及びその化合物/Gallium and its compounds	-
含有禁止物質	K-49	その他の有機燐化合物(含有禁止物質対象以外)/Organic phosphorous compound	ジフェニルアミンとアセトンの反応生成物/2-Propanone.reaction products with diphenylamine(PREPOD)	9003-53-6
			ジフェニルアミンとアセトンの反応生成物/3-Propanone.reaction products with diphenylamine(PREPOD)	68412-48-6
含有禁止物質	K-50	アセトアルデヒド/Acetaldehyde	アセトアルデヒド/Acetaldehyde	75-07-0
	K-51	アセトアミド/Acetamide	アセトアミド/Acetamide	60-35-5
含有禁止物質	K-52	アセトニトリル/Acetonitrile	アセトニトリル/Acetonitrile	75-05-8
	K-53	アクリロニトリル/Acrylonitrile	アクリロニトリル/Acrylonitrile	107-73-1
含有禁止物質	K-54	ピグメントレッド25	ピグメントレッド25	74336-60-0
	K-55	1,4-ベンゼンジアミンN,N'-mixed Ph and tolyl derivs	1,4-ベンゼンジアミンN,N'-mixed Ph and tolyl derivs	68953-84-4
含有禁止物質	K-56	N,N-ジシクロヘキシル-1,3-ペンチアノール-2-スルフェンアミド	N,N-ジシクロヘキシル-1,3-ペンチアノール-2-スルフェンアミド	4979-32-2
	K-57	ブタジエン/Butadiene	ブタジエン/Butadiene	106-99-0
含有禁止物質	K-58	直鎖状塩素化炭化水素	直鎖状塩素化炭化水素	85535-85-9
	K-59	コロホニウム類(ロジン類)	コロホニウム類(ロジン類)	8050-09-7,14849-15-4, 91081-53-7
含有禁止物質	K-60	ヘプタメチルフェニルシクロトランロキサン/Cyclotetrasiloxane.heptamethylphenyl-	ヘプタメチルフェニルシクロトランロキサン/Cyclotetrasiloxane.heptamethylphenyl-	10448-09-6
	K-61	オクタメチルシクロトランロキサン/Cyclotetrasiloxane.octamethyl-	オクタメチルシクロトランロキサン/Cyclotetrasiloxane.octamethyl-	556-67-2
含有禁止物質	K-62	ビス(1,2,2,6,6-ペンタメチル-4-ピペリジン)=デカンジオアート	ビス(1,2,2,6,6-ペンタメチル-4-ピペリジン)=デカンジオアート	41556-26-7
	K-63	ジクロロプロピレン/Dichloropropane	ジクロロプロピレン/Dichloropropane	96-23-1
含有禁止物質	K-64	ジクロロベンジジン/Dichlorobenzidine	ジクロロベンジジン/Dichlorobenzidine	106-89-8
	K-65	エトキシ又はメトキシエチレングリコール及びその酢酸塩/Ethri-/Methyl-Glycols and their Acetates:	エトキシ又はメトキシエチレングリコール及びその酢酸塩/Ethri-/Methyl-Glycols and their Acetates:	1589-47-5
含有禁止物質	K-66	Fatty acids,C6-19-branched.zinc salts	Fatty acids,C6-19-branched.zinc salts	68551-44-0
	K-67	ふっ素テロマー/Fluorotelomers.selected	ふっ素テロマー/Fluorotelomers.selected	678-39-7,21652-58-4, 507-63-1,865-86-1, 2043-54-1,2043-53-0
含有禁止物質	K-68	メチルアクリルアミドメトキシアセテート/Methylacrylamidomethoxy-acetate	メチルアクリルアミドメトキシアセテート/Methylacrylamidomethoxy-acetate	77402-03-0
	K-69	ナフタレン/Naphthalene	ナフタレン/Naphthalene	91-20-3



**環境負荷物質一覧<添付1>**  
**List of Environmentally Hazardous Substances<Attachment 1>**

この一覧は例示物質であるため、一覧に掲載されていない物質で禁止物質に該当する場合、報告する事。

ランク	物質群 / Substance group	物質名 / Substance	CAS No.
K-70	ビグメントレッド3	ビグメントレッド3	2425-85-6
K-71	亜硝酸塩類	亜硝酸塩類	13446-49-5
K-72	ニトロセルロース	ニトロセルロース	9004-70-0
K-73	ニトロソアミン類	ニトロソアミン類	55-18-4
K-74	ポリオキシエチレンアルキルフェノール類	ポリオキシエチレンアルキルフェノール類	27942-26-3,50974-47-5
K-75	2,2,4,4-テトラメチル-7-オキサ-3,20-ジアザスピロ[5.1.11.2]ヘキササン-21-オン	2,2,4,4-テトラメチル-7-オキサ-3,20-ジアザスピロ[5.1.11.2]ヘキササン-21-オン	64338-16-5
K-76	フェノール/Phenol	フェノール/Phenol	108-95-2
K-77	2,4ジ-tert-ブチル-6-(5-クロロ-2H-1,2,3-ベンゾトリアゾール-2-イル)フェノール	2,4ジ-tert-ブチル-6-(5-クロロ-2H-1,2,3-ベンゾトリアゾール-2-イル)フェノール	3864-99-1
K-78	フェニレンジアミン及びその塩類	フェニレンジアミン及びその塩類	609-20-1
K-79	リン酸トリクレジル	リン酸トリクレジル	78-30-8
K-80	ポリアミン硬化剤	ポリアミン硬化剤	100-97-0,4067-16-7,9046-10-0
K-81	ポリプロピレングリコールジアミン	ポリプロピレングリコールジアミン	9046-10-0
K-82	ポリ臭素化ターフェニル類	ポリ臭素化ターフェニル類	79596-31-9
K-83	2-メチキシープロパノール	2-メチキシープロパノール	1589-47-5
K-84	結晶性シリカ/Silica Crystalline	結晶性シリカ/Silica Crystalline	14808-60-7
K-85	H末端ポリジメチルシロキサン/Siloxanes and Silicones, di-Me hydrogen-terminated	H末端ポリジメチルシロキサン/Siloxanes and Silicones, di-Me hydrogen-terminated	70900-21-9
K-86	Siloxanes and Silicones, Me 3,3,3-trifluoropropyl, Me vinyl, hydroxy-terminated	Siloxanes and Silicones, Me 3,3,3-trifluoropropyl, Me vinyl, hydroxy-terminated	68952-02-3
K-87	スチレンモノマー/Styrene	スチレンモノマー/Styrene	100-42-5
K-88	フェニルオキシラン/Styrene oxide	フェニルオキシラン/Styrene oxide	96-09-3
K-89			
K-90	1,3-ジ-tert-ブチル-4-メチル-2-ヒドロキシベンゼン(DOTG)	1,3-ジ-tert-ブチル-4-メチル-2-ヒドロキシベンゼン(DOTG)	97-39-2
K-91	トリクロロフェノール及びその塩類/trichlorophenol and its salts, all members	トリクロロフェノール及びその塩類/trichlorophenol and its salts, all members	95-95-4
K-92	トリス(1,3-ジクロロ-2-プロピル)ホスフェート/Tris(1,3-dichloro-2-propyl)phosphate	トリス(1,3-ジクロロ-2-プロピル)ホスフェート/Tris(1,3-dichloro-2-propyl)phosphate	13674-87-8
K-93	五酸化バナジウム/Vanadium(V)oxide	五酸化バナジウム/Vanadium(V)oxide	1314-62-1
K-94	2-(2-Aminoethylamino)ethanol/2-(2-Aminoethylamino)エタノール	2-(2-Aminoethylamino)ethanol/2-(2-Aminoethylamino)エタノール	111-41-1
K-95	メラミン/melamine	メラミン/melamine	108-78-1
R-1	アントラセン/Anthracene	アントラセン/Anthracene	120-12-7
R-2	4,4'-ジアミノジフェニルメタン(4,4'-メチレンジアニリン)(MDA)/4,4'-Diaminodiphenylmethane(4,4'-Methylenedianiline)(MDA)	4,4'-ジアミノジフェニルメタン(4,4'-メチレンジアニリン)(MDA)/4,4'-Diaminodiphenylmethane(4,4'-Methylenedianiline)(MDA)	101-77-9
R-3	4,4'-ジアミノジフェニルエーテル(DBP)/Dibutyl phthalate	4,4'-ジアミノジフェニルエーテル(DBP)/Dibutyl phthalate	84-74-2
R-4	塩化コバルト(II)/Cobalt(II) chloride	塩化コバルト(II)/Cobalt(II) chloride	7646-79-9
R-5	五酸化二ヒ素/Diarsenic pentoxide	五酸化二ヒ素/Diarsenic pentoxide	1303-28-2
R-6	三酸化二ヒ素/Diarsenic trioxide	三酸化二ヒ素/Diarsenic trioxide	1327-53-3
R-7	ニクロム酸ナトリウム水和物(重クロム酸ナトリウム水和物)/Sodium dichromate, dihydrate	ニクロム酸ナトリウム水和物(重クロム酸ナトリウム水和物)/Sodium dichromate, dihydrate	7789-12-0
R-8	2,4,6-トリニトロ-5-tert-ブチル-1,3-キシレン(ムスクキシレン)/5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	2,4,6-トリニトロ-5-tert-ブチル-1,3-キシレン(ムスクキシレン)/5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2
R-9	フタル酸ビス(2-エチルヘキシル)phthalate	フタル酸ビス(2-エチルヘキシル)phthalate	117-81-7
R-10	ヘキサブロモシクロドデカン/Hexabromocyclododecane (HBCDD)	ヘキサブロモシクロドデカン/Hexabromocyclododecane (HBCDD)	25637-99-4
R-11	ビス(トリブチルスズ)オキサイド(TBTO)/Bis(tributyltin) oxide	ビス(トリブチルスズ)オキサイド(TBTO)/Bis(tributyltin) oxide	56-35-9
R-12	ヒ酸鉛/Lead hydrogen arsenate	ヒ酸鉛/Lead hydrogen arsenate	7784-40-9
R-13	フタル酸-n-ブチルベンジル(BBP)/Benzyl butyl phthalate	フタル酸-n-ブチルベンジル(BBP)/Benzyl butyl phthalate	85-68-7
R-14	ヒ酸トリエチル/Triethyl arsenate	ヒ酸トリエチル/Triethyl arsenate	15606-95-8
R-15	アントラセン油/Anthracene oil	アントラセン油/Anthracene oil	90640-80-5
R-16	アントラセン油(アントラセンペースト、軽沸成分)/Anthracene oil, anthracene paste, distn. lights	アントラセン油(アントラセンペースト、軽沸成分)/Anthracene oil, anthracene paste, distn. lights	91995-17-4
R-17	アントラセン油(アントラセンペースト、アントラセン留分)/Anthracene oil, anthracene paste, anthracene fraction	アントラセン油(アントラセンペースト、アントラセン留分)/Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
R-18	アントラセン油(低含有)/Anthracene oil, anthracene low	アントラセン油(低含有)/Anthracene oil, anthracene low	90640-82-7
R-19	アントラセン油(アントラセンペースト)/Anthracene oil, anthracene paste	アントラセン油(アントラセンペースト)/Anthracene oil, anthracene paste	90640-81-6
R-20	高温コaltar-タルピッチ(CTPHT)/Coal tar pitch, high temperature(CTPHT)	高温コaltar-タルピッチ(CTPHT)/Coal tar pitch, high temperature(CTPHT)	65996-93-2
R-21	アルミノケイ酸塩耐火セラミック繊維(RCF)/Aluminosilicate, Refractory Ceramic Fibres (RCF)	アルミノケイ酸塩耐火セラミック繊維(RCF)/Aluminosilicate, Refractory Ceramic Fibres (RCF)	CAS No.なし
R-22	ジルコニアアルミノケイ酸塩耐火セラミック繊維(Zr-RCF)/Zirconia Aluminosilicate, Refractory Ceramic Fibres (Zr-RCF)	ジルコニアアルミノケイ酸塩耐火セラミック繊維(Zr-RCF)/Zirconia Aluminosilicate, Refractory Ceramic Fibres (Zr-RCF)	CAS No.なし
R-23	2,4-ジニトロトルエン/2,4-Dinitrotoluene	2,4-ジニトロトルエン/2,4-Dinitrotoluene	121-14-2
R-24	フタル酸ジイソブチル(DIBP)/Diisobutyl phthalate(DIBP)	フタル酸ジイソブチル(DIBP)/Diisobutyl phthalate(DIBP)	84-69-5
R-25	クロム酸鉛(II)/Lead chromate	クロム酸鉛(II)/Lead chromate	7758-97-6
R-26	硫酸モリブデン酸クロム酸鉛(ビグメントレッド104)/Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	硫酸モリブデン酸クロム酸鉛(ビグメントレッド104)/Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
R-27	安息香酸ナトリウム(ビグメントイエロー-34)/Lead sulfochromate yellow(C.I. Pigment Yellow 34)	安息香酸ナトリウム(ビグメントイエロー-34)/Lead sulfochromate yellow(C.I. Pigment Yellow 34)	1344-37-2
R-28	リン酸トリス(2-クロロエチル)(TCEP)/Tris(2-chloroethyl)phosphate(TCEP)	リン酸トリス(2-クロロエチル)(TCEP)/Tris(2-chloroethyl)phosphate(TCEP)	115-96-8
R-29	アクリルアミド/Acrylamide	アクリルアミド/Acrylamide	79-06-1
R-30	トリクロロエチレン/Trichloroethylene	トリクロロエチレン/Trichloroethylene	79-01-6
R-31	ホウ酸/Boric acid	ホウ酸/Boric acid	10043-35-3,11113-50-1
R-32	四ホウ酸ナトリウム(無水物)/Disodium tetraborate, anhydrous	四ホウ酸ナトリウム(無水物)/Disodium tetraborate, anhydrous	12179-04-3 1303-96-4
R-33	四ホウ酸ナトリウム(水和物)/Tetraboron disodium heptaoxide, hydrate	四ホウ酸ナトリウム(水和物)/Tetraboron disodium heptaoxide, hydrate	12267-73-1
R-34	クロム酸ナトリウム/Sodium chromate	クロム酸ナトリウム/Sodium chromate	7775-11-3
R-35	クロム酸カリウム/Potassium chromate	クロム酸カリウム/Potassium chromate	7789-00-6
R-36	ニクロム酸アンモニウム/Ammonium dichromate	ニクロム酸アンモニウム/Ammonium dichromate	7789-09-5
R-37	ニクロム酸カリウム/Potassium dichromate	ニクロム酸カリウム/Potassium dichromate	7778-50-9
R-38	硫酸コバルト(II)/Cobalt(II) sulphate	硫酸コバルト(II)/Cobalt(II) sulphate	10124-43-3
R-39	硝酸コバルト(II)/Cobalt(II) nitrate	硝酸コバルト(II)/Cobalt(II) nitrate	10141-05-6
R-40	炭酸コバルト(II)/Cobalt(II) carbonate	炭酸コバルト(II)/Cobalt(II) carbonate	519-79-1
R-41	酢酸コバルト(II)/Cobalt(II) diacetate	酢酸コバルト(II)/Cobalt(II) diacetate	71-48-7
R-42	2-エトキシエタノール/2-Ethoxyethanol	2-エトキシエタノール/2-Ethoxyethanol	110-80-5
R-43	2-メトキシエタノール/2-Methoxyethanol	2-メトキシエタノール/2-Methoxyethanol	109-86-4
R-44	三酸化クロム/Chromium trioxide	三酸化クロム/Chromium trioxide	1333-82-0
R-45	三酸化クロムおよびそのオリゴマーから生成される酸とそれらのオリゴマー: クロム酸 重クロム酸 クロム酸、重クロム酸のオリゴマー /Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	三酸化クロムおよびそのオリゴマーから生成される酸とそれらのオリゴマー: クロム酸 重クロム酸 クロム酸、重クロム酸のオリゴマー /Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2 -
R-46	酢酸2-エトキシエチル/2-ethoxyethyl acetate	酢酸2-エトキシエチル/2-ethoxyethyl acetate	111-15-9
R-47	クロム酸ストロンチウム/Strontium chromate	クロム酸ストロンチウム/Strontium chromate	7789-06-2
R-48	フタル酸ヘフチルニルウンデシル(DHNUP)/1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters, Di(nonyl nonyl undecyl)phthalate(DHNUP)	フタル酸ヘフチルニルウンデシル(DHNUP)/1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters, Di(nonyl nonyl undecyl)phthalate(DHNUP)	68515-42-4
R-49	ヒドラジン/Hydrazine	ヒドラジン/Hydrazine	301-02-1 7803-57-8
R-50	1,2,3-トリクロロプロパン/1,2,3-trichloropropane	1,2,3-トリクロロプロパン/1,2,3-trichloropropane	96-18-4
R-51	1,2-ベンゼンジカルボン酸、炭素数7の側鎖炭化水素を主成分とする炭素数6~8のフタル酸エステル類(DIHP)/1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich, Diisobutyl phthalate(DIHP)	1,2-ベンゼンジカルボン酸、炭素数7の側鎖炭化水素を主成分とする炭素数6~8のフタル酸エステル類(DIHP)/1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich, Diisobutyl phthalate(DIHP)	71889-89-6
R-52	ステフェニン酸鉛、トリニネート、鉛(II) 2,4,6-トリニトロベンゼン-1,3-ジ-オラート/Lead stivphnate	ステフェニン酸鉛、トリニネート、鉛(II) 2,4,6-トリニトロベンゼン-1,3-ジ-オラート/Lead stivphnate	15245-44-0
R-53	アジ化鉛ジアザド鉛(II) Lead azide Lead diazide	アジ化鉛ジアザド鉛(II) Lead azide Lead diazide	13424-46-9
R-54	ニヒクリン酸鉛ヒスビクリン酸鉛(II) 鉛(II)ビス(2,4,6-トリニトロベンゼン-1,3-ジ-オラート)/Lead dipicrate	ニヒクリン酸鉛ヒスビクリン酸鉛(II) 鉛(II)ビス(2,4,6-トリニトロベンゼン-1,3-ジ-オラート)/Lead dipicrate	6477-64-1
R-55	フェノールフタレイン,3,3'-ビス(4-ヒドロキシフェニル)イソベンゾフラン-1(3H)-オン/Phenolphthalein	フェノールフタレイン,3,3'-ビス(4-ヒドロキシフェニル)イソベンゾフラン-1(3H)-オン/Phenolphthalein	77-09-8
R-56	2,2'-ジクロロ-4,4'-メチレンジアニリン(MOCA)/2,2'-dichloro-4,4'-methylenedianiline(MOCA)	2,2'-ジクロロ-4,4'-メチレンジアニリン(MOCA)/2,2'-dichloro-4,4'-methylenedianiline(MOCA)	101-14-4
R-57	N,N-ジメチルアセトアミド(DMAC)/N,N-dimethylacetamide(DMAC)	N,N-ジメチルアセトアミド(DMAC)/N,N-dimethylacetamide(DMAC)	127-19-5
R-58	ヒ酸鉛/Trilead diarsenate	ヒ酸鉛/Trilead diarsenate	3687-31-8

環境負荷物質一覧<添付1>  
List of Environmentally Hazardous Substances<Attachment 1>

この一覧は例示物質であるため、一覧に掲載されていない物質で禁止物質に該当する場合、報告する事。

ランク	物質群 / Substance group	物質名 / Substance	CAS No.
R-59	ヒ酸カルシウム/Calcium arsenate	ヒ酸カルシウム/Calcium arsenate	7778-44-1
R-60	ヒ酸/Arsenic acid	ヒ酸/Arsenic acid	7778-39-4
R-61	ジエチレングリコールジメチルエーテル/Bis(2-methoxyethyl) ether	ジエチレングリコールジメチルエーテル/Bis(2-methoxyethyl) ether	111-98-6
R-62	4-(1,1,3,3-テトラメチルブチルフェノール,4-tert-オクチルフェノール/4-(1,1,3,3-tetramethylbutyl)phenol(4-tert-Octylphenol)	4-(1,1,3,3-テトラメチルブチルフェノール,4-tert-オクチルフェノール/4-(1,1,3,3-tetramethylbutyl)phenol(4-tert-Octylphenol)	140-66-9
R-63	2-メトキシアニリン/o-アニジジン/2-Methoxyaniline; o-Anisidine	2-メトキシアニリン/o-アニジジン/2-Methoxyaniline; o-Anisidine	90-04-0
R-64	フタル酸ビス(2-メトキシエチル)/Bis(2-methoxyethyl) phthalate	フタル酸ビス(2-メトキシエチル)/Bis(2-methoxyethyl) phthalate	117-82-8
R-65	ホルムアルデヒド、アニリンによるオリゴマー反応生成物 (工業的なMDA)/Formaldehyde, oligomeric reaction products with aniline(technical MDA)	ホルムアルデヒド、アニリンによるオリゴマー反応生成物 (工業的なMDA)/Formaldehyde, oligomeric reaction products with aniline(technical MDA)	25214-70-4
R-66	ジルコニアアルミノケイ酸塩耐火セラミック繊維(Zr-RCF)/ Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF)	ジルコニアアルミノケイ酸塩耐火セラミック繊維(Zr-RCF)/ Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF)	-
R-67	アルミノケイ酸塩耐火セラミック繊維(RCF)/ Aluminosilicate Refractory Ceramic Fibres(RCF)	アルミノケイ酸塩耐火セラミック繊維(RCF)/ Aluminosilicate Refractory Ceramic Fibres(RCF)	-
R-68	クロム酸八水酸化五亜鉛/Pentazinc chromate octahydroxide	クロム酸八水酸化五亜鉛/Pentazinc chromate octahydroxide	49663-84-5
R-69	ヒドロキソクトキサジニドクロム酸カリウム/ Potassium hydroxyoctoxodizincatedi-chromate	ヒドロキソクトキサジニドクロム酸カリウム/ Potassium hydroxyoctoxodizincatedi-chromate	11103-86-9
R-70	クロム酸/クロム(III)/Dichromium tris(chromate)	クロム酸/クロム(III)/Dichromium tris(chromate)	24613-89-6
R-71	トリエチレングリコールジメチルエーテル/ 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triolyme)	トリエチレングリコールジメチルエーテル/ 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triolyme)	112-49-2
R-72	エチレングリコールジメチルエーテル/ 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	エチレングリコールジメチルエーテル/ 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
R-73	ベシックブルー 26/ C.I. Basic Blue 26 ([4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylenecyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	ベシックブルー 26/ C.I. Basic Blue 26 ([4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylenecyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	2580-56-5
R-74	ベシックバイオレット3/ C.I. Basic Violet 3 [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	ベシックバイオレット3/ C.I. Basic Violet 3 [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	548-62-9
R-75	C.I.ソルベントブルー4 [α,α'-ビス(4-ジメチルアミノフェニル)-4-フェニルアミノ-1-トリアジンメタール]/ C.I. Solvent Blue 4 (α,α'-bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol)	C.I.ソルベントブルー4 [α,α'-ビス(4-ジメチルアミノフェニル)-4-フェニルアミノ-1-トリアジンメタール]/ C.I. Solvent Blue 4 (α,α'-bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol)	6786-83-0
R-76	C.I.ソルベントバイオレット8 [β,β'-ビス(4-ジメチルアミノフェニル)-4-メチルアミノフェニル]メタノール/ C.I. Solvent Violet 8 (4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol)	C.I.ソルベントバイオレット8 [β,β'-ビス(4-ジメチルアミノフェニル)-4-メチルアミノフェニル]メタノール/ C.I. Solvent Violet 8 (4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol)	561-41-1
R-77	酸化ホウ素(三酸化二硼素)/Diboron trioxide, boric oxide	酸化ホウ素(三酸化二硼素)/Diboron trioxide, boric oxide	1303-86-2
R-78	ホルムアミド/Formamide	ホルムアミド/Formamide	75-12-7
R-79	メタンスルホン酸鉛(II)/Lead(II) bis(methanesulfonate)	メタンスルホン酸鉛(II)/Lead(II) bis(methanesulfonate)	17570-76-2
R-80	ビス(4-ジメチルアミノフェニル)メタン/ Michler's Base (N,N,N',N'-tetramethyl-4,4'-methylenedianiline)	ビス(4-ジメチルアミノフェニル)メタン/ Michler's Base (N,N,N',N'-tetramethyl-4,4'-methylenedianiline)	101-61-1
R-81	Michler's Ketone (4,4'-bis(dimethylamino)benzophenone)	Michler's Ketone (4,4'-bis(dimethylamino)benzophenone)	90-94-8
R-82	イソシアヌル酸トリアジン/ TGIC (1,3,5-trisoxiranvinylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-ペネタ-1,3,5-トリス(2,3-エポキシプロピル)-1,3,5-トリアジン-2,4,6-(1H,3H,5H)-トリオン / β-TGIC (1,3,5-tris(2S and 2R)-2,3-epoxypropyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	イソシアヌル酸トリアジン/ TGIC (1,3,5-trisoxiranvinylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-ペネタ-1,3,5-トリス(2,3-エポキシプロピル)-1,3,5-トリアジン-2,4,6-(1H,3H,5H)-トリオン / β-TGIC (1,3,5-tris(2S and 2R)-2,3-epoxypropyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9
R-84	デカブロモジフェニルエーテル Bis(PeNtAbromPheNyl) ether (DecaBDF)	デカブロモジフェニルエーテル Bis(PeNtAbromPheNyl) ether (DecaBDF)	1163-19-5
R-85	ペントカサフルオロトリデカン酸 PeNtacosfluorotridecanoic acid	ペントカサフルオロトリデカン酸 PeNtacosfluorotridecanoic acid	72629-94-8
R-86	トリコサフルオロドデカン酸 Tricosfluorododecanoic acid	トリコサフルオロドデカン酸 Tricosfluorododecanoic acid	307-55-1
R-87	ヘニコサフルオロウンデカン酸 HeNicosfluoroundecanoic acid	ヘニコサフルオロウンデカン酸 HeNicosfluoroundecanoic acid	2058-94-8
R-88	ヘプタコサフルオロトリデカン酸 HePtacosfluorotridecanoic acid	ヘプタコサフルオロトリデカン酸 HePtacosfluorotridecanoic acid	376-06-7
R-89	4-(1,1,3,3-テトラメチルブチル)フェノール, エトキシレート 4-(1,1,3,3-tetramethylbutyl)PheNol, ethoxylated - coveriNg well-defiNed substaNces aNd UVCB substaNces, Polymers aNd homologues	4-(1,1,3,3-テトラメチルブチル)フェノール, エトキシレート 4-(1,1,3,3-tetramethylbutyl)PheNol, ethoxylated - coveriNg well-defiNed substaNces aNd UVCB substaNces, Polymers aNd homologues	-
R-90	4-ノニルフェノール [炭素数9の直鎖および分岐のアルキルの全ての異性体の単独物、および混合物(UVCB)] 4-NoNylPheNol, braNched aNd liNear - substaNces with a liNear aNd/or braNched alkyl chaIN with a carboN Number of 9 covaleNtly bouNd iN PositiON 4 to PheNol, coveriNg also UVCB-aNd well-defiNed substaNces which iNclude aNy of the iNdividual isomers or a combinatiON thereof	4-ノニルフェノール [炭素数9の直鎖および分岐のアルキルの全ての異性体の単独物、および混合物(UVCB)] 4-NoNylPheNol, braNched aNd liNear - substaNces with a liNear aNd/or braNched alkyl chaIN with a carboN Number of 9 covaleNtly bouNd iN PositiON 4 to PheNol, coveriNg also UVCB-aNd well-defiNed substaNces which iNclude aNy of the iNdividual isomers or a combinatiON thereof	-
R-91	アジカルボキサミド DiazeNe-1,2-dicarboxamide (C,C'-azodi(formamide))	アジカルボキサミド DiazeNe-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
R-92	ヘキサヒドロフタル酸無水物 Hexahydro-2-beNzofurAN-1,3-dioNe (HHPA), cis-cyclohexaNe-1,2-dicarboxylic aNhydride, traNs-cyclohexaNe-1,2-dicarboxylic aNhydride	ヘキサヒドロフタル酸無水物 Hexahydro-2-beNzofurAN-1,3-dioNe (HHPA), cis-cyclohexaNe-1,2-dicarboxylic aNhydride, traNs-cyclohexaNe-1,2-dicarboxylic aNhydride	85-42-7 13149-00-3 14166-21-3
R-93	メチルヘキサヒドロ無水フタル酸 4-メチルシクロヘキサン-1,2-ジカルボン酸無水物 メチルヘキサヒドロ無水フタル酸 メチルヘキサヒドロ無水フタル酸 HexahydromethylPhthalic aNhydride, Hexahydro-4-methylPhthalic aNhydride, Hexahydro-1-methylPhthalic aNhydride, Hexahydro-3-methylPhthalic aNhydride	メチルヘキサヒドロ無水フタル酸 4-メチルシクロヘキサン-1,2-ジカルボン酸無水物 メチルヘキサヒドロ無水フタル酸 メチルヘキサヒドロ無水フタル酸 HexahydromethylPhthalic aNhydride, Hexahydro-4-methylPhthalic aNhydride, Hexahydro-1-methylPhthalic aNhydride, Hexahydro-3-methylPhthalic aNhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9
R-94	メトキシ酢酸 methoxy acetic acid	メトキシ酢酸 methoxy acetic acid	625-45-6
R-95	1,2-ベンゼンカルボ酸, 炭素数7-11の分岐および直鎖アルキルエステル類 1,2-BeNzeNedicarboxylic acid, diPeNtylester, braNched aNd liNear	1,2-ベンゼンカルボ酸, 炭素数7-11の分岐および直鎖アルキルエステル類 1,2-BeNzeNedicarboxylic acid, diPeNtylester, braNched aNd liNear	84777-06-0
R-96	フタル酸ジイソペンチル DiisoPeNtylPhthalate	フタル酸ジイソペンチル DiisoPeNtylPhthalate	605-50-5
R-97	N-ペンチル-イソペンチルフタル酸 N-PeNtyl-isoPeNtylPhthalate	N-ペンチル-イソペンチルフタル酸 N-PeNtyl-isoPeNtylPhthalate	776297-69-9
R-98	1,2-ジエトキシエタン 1,2-DiethoxyethaNe	1,2-ジエトキシエタン 1,2-DiethoxyethaNe	629-14-1
R-99	ジメチルホルムアミド N,N-dimethylformamide; dimethyl formamide	ジメチルホルムアミド N,N-dimethylformamide; dimethyl formamide	68-12-2
R-100	ジブチルスズジクロライド Dibutyltin dichloride (DBT)	ジブチルスズジクロライド Dibutyltin dichloride (DBT)	683-18-1
R-101	増基性酢酸鉛 Acetic acid, lead salt, basic	増基性酢酸鉛 Acetic acid, lead salt, basic	51404-69-4
R-102	炭酸鉛 Trilead bis(carboNate)dihydroxide (basic lead carboNate)	炭酸鉛 Trilead bis(carboNate)dihydroxide (basic lead carboNate)	1319-46-6
R-103	増基性硫酸鉛 Lead oxide sulPhate	増基性硫酸鉛 Lead oxide sulPhate	12036-76-9
R-104	[1,2-ベンゼンジカルボキシラト(2-)] ジオキソ三鉛 [Phthalato(2-)]dioxotrilead	[1,2-ベンゼンジカルボキシラト(2-)] ジオキソ三鉛 [Phthalato(2-)]dioxotrilead	69011-06-9
R-105	ジオキソビス(ステアリン酸)三鉛 Dioxobis(stearato)trilead	ジオキソビス(ステアリン酸)三鉛 Dioxobis(stearato)trilead	12578-12-0
R-106	脂肪酸鉛塩(炭素数C16-18) Fatty acids, C16-18, lead salts	脂肪酸鉛塩(炭素数C16-18) Fatty acids, C16-18, lead salts	91031-62-8
R-107	硼弗化鉛 Lead bis(tetrafluoroborate)	硼弗化鉛 Lead bis(tetrafluoroborate)	13814-96-5
R-108	シアナミド鉛 Lead cyNamidate	シアナミド鉛 Lead cyNamidate	20837-86-9

**環境負荷物質一覧<添付1>**  
**List of Environmentally Hazardous Substances<Attachment 1>**

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	全量対象物質	管理物質	報告対象物質			
			R-109	硝酸鉛 Lead diNitrate	硝酸鉛 Lead diNitrate	10099-74-8
			R-110	一酸化鉛 Lead oxide (lead monoNoxide)	一酸化鉛 Lead oxide (lead monoNoxide)	1317-36-8
			R-111	四三酸化鉛 Lead tetroxide(orange lead)	四三酸化鉛 Lead tetroxide(orange lead)	1314-41-6
			R-112	チタン酸鉛 Lead titaNium trioxide	チタン酸鉛 Lead titaNium trioxide	12060-00-3
			R-113	ジルコン酸チタン酸鉛 Lead TitaNium ZircoNium Oxide	ジルコン酸チタン酸鉛 Lead TitaNium ZircoNium Oxide	12626-81-2
			R-114	塩基性硫酸鉛 PeNtalead tetraoxide sulPhate	塩基性硫酸鉛 PeNtalead tetraoxide sulPhate	12065-90-6
			R-115	ビグメントエロー41 Pyrochlore, aNtumoNy lead yellow	ビグメントエロー41 Pyrochlore, aNtumoNy lead yellow	8012-00-8
			R-116	ケイ酸バリウム、鉛ドーパ Silicic acid, barium salt, lead-doPed	ケイ酸バリウム、鉛ドーパ Silicic acid, barium salt, lead-doPed	68784-75-8
			R-117	ケイ酸と鉛の塩 Silicic acid, lead salt	ケイ酸と鉛の塩 Silicic acid, lead salt	11120-22-2
			R-118	塩基性亜硫酸鉛 Sulfurous acid, lead salt, dibasic	塩基性亜硫酸鉛 Sulfurous acid, lead salt, dibasic	62229-08-7
			R-119	四エチル鉛 Tetraethyllead	四エチル鉛 Tetraethyllead	78-00-2
			R-120	塩基性硫酸鉛；三塩基性硫酸鉛 Tetralead trioxide sulPhate	塩基性硫酸鉛；三塩基性硫酸鉛 Tetralead trioxide sulPhate	12202-17-4
			R-121	二塩基性リン酸鉛 Trilead dioxide PhosPhoNate	二塩基性リン酸鉛 Trilead dioxide PhosPhoNate	12141-20-7
			R-122	フラン FuraN	フラン FuraN	110-00-9
			R-123	酸化プロピレン ProPyleNe oxide; 1,2-ePoxyProPaNe; methyloxiraNe	酸化プロピレン ProPyleNe oxide; 1,2-ePoxyProPaNe; methyloxiraNe	75-56-9
			R-124	硫酸ジエチル Diethyl sulPhate	硫酸ジエチル Diethyl sulPhate	64-67-5
			R-125	硫酸ジメチル Dimethyl sulPhate	硫酸ジメチル Dimethyl sulPhate	77-78-1
			R-126	3-エチル-2-イソペンチル-2-メチル-1,3-オキサゾリジン 3-ethyl-2-methyl-2-(2-methylbutyl)-1,3-oxazolidiNe	3-エチル-2-イソペンチル-2-メチル-1,3-オキサゾリジン 3-ethyl-2-methyl-2-(2-methylbutyl)-1,3-oxazolidiNe	143860-04-2
			R-127	ジノセブ DiNoseb	ジノセブ DiNoseb	88-85-7
			R-128	4,4'-メチレンビス(2-メチルアニリン) 4,4'-methyleneNedi-o-toluidiNe	4,4'-メチレンビス(2-メチルアニリン) 4,4'-methyleneNedi-o-toluidiNe	838-88-0
			R-129	4,4'-ジアミノジフェニルエーテル 4,4'-oxydiaNiiNe aNd its salts	4,4'-ジアミノジフェニルエーテル 4,4'-oxydiaNiiNe aNd its salts	101-80-4
			R-130	p-アミノアゾベンゼン 4-AmiNoazobeNzeNe; 4-PhaNylazoaNiiNe	p-アミノアゾベンゼン 4-AmiNoazobeNzeNe; 4-PhaNylazoaNiiNe	60-09-3
			R-131	2,4-ジアミトルエン 4-methyl-m-PhaNyleNediamiNe (2,4-tolueNe-diamiNe)	2,4-ジアミトルエン 4-methyl-m-PhaNyleNediamiNe (2,4-tolueNe-diamiNe)	95-80-7
			R-132	6-メトキシ-m-トルイジン 6-methoxy-m-toluidiNe (P-cresidiNe)	6-メトキシ-m-トルイジン 6-methoxy-m-toluidiNe (P-cresidiNe)	120-71-8
			R-133	2-アミノ-5-アゾトルエン o-amiNoazotolueNe	2-アミノ-5-アゾトルエン o-amiNoazotolueNe	97-56-3
			R-134	o-トルイジン o-ToluidiNe; 2-AmiNotolueNe	o-トルイジン o-ToluidiNe; 2-AmiNotolueNe	95-53-4
			R-135	N-メチルアセトアミド N-methylacetamide	N-メチルアセトアミド N-methylacetamide	79-16-3
			R-136	1-ブロモプロパン；臭化 N-プロピル 1-bromoProPaNe	1-ブロモプロパン；臭化 N-プロピル 1-bromoProPaNe	106-94-5
			R-137	シリコン/silicone	シリコン/silicone	-
			R-138	※臭素及びその化合物(但し,PBB/PBDE類を除く)/ Bromine and its compounds (excluding PBBs and PBDEs)	臭素及びその化合物(但し,PBB/PBDE類を除く)/ Bromine and its compounds (excluding PBBs and PBDEs)	-
			R-139	※アンチモン及びその化合物/Antimony and its compounds	アンチモン及びその化合物/Antimony and its compounds	-
			R-140	アジリジン/Ethyleneimine	アジリジン/Ethyleneimine	151-56-4
			R-141	β-プロピオラクトン/β-Oxetanone	β-プロピオラクトン/β-Oxetanone	57-57-8
			R-142	1,2-ジブロモ-3-クロロプロパン/1,2-Dibromo-3-chloropropane	1,2-ジブロモ-3-クロロプロパン/1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane
			R-143	Explosives	Explosives	-
			R-144	レアアース/Rare earth elements	レアアース/Rare earth elements	-
			R-145	REACH規則 高懸念物質(SVHC)(第1次)	Anthracene	120-12-7
					4,4'-DiaminodiPhaNylmethaNe	101-77-9
					Dibutyl Phthalate (DBP)	84-74-2
					Cobalt dichloride	7646-79-9
					Diarsenic Pentaoxide	1303-28-2
					Diarsenic trioxide	1327-53-3
					Sodium dichromate, dihydrate	7789-12-0
					5-tert-butyl-2,4,6-triNitro-m-xylene (musk xylene)	10688-01-9
					Bis(2-ethylhexyl)Phthalate) (DEHP)	81-15-2
					Hexabromocyclododecane (HBCDD)	25637-99-4
					all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	13194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)
					Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
					Bis(tributyltin)oxide	56-35-9
					Lead hydrogen arsenate	7784-40-9
			Bethyl butyl Phthalate	85-69-7		
			Triethyl arsenate	15606-95-8		
			2,4-Dinitrotoluene	121-14-2		
			Anthracene oil	90640-80-5		
			Anthracene oil, anthracene Paste, dist. Lights	91995-17-4		
			Anthracene oil, anthracene Paste, anthracene fraction	91995-15-2		
			Anthracene oil, anthracene-low	90640-82-7		
			Anthracene oil, anthracene Paste	90640-81-6		
			Diisobutyl Phthalate	84-69-5		
			Lead chromate	7759-87-6		
			Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8		
			Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2		
			Tris(2-chloroethyl) Phosphate	115-96-8		
			Pitch, coal tar, high temperature	65996-93-2		
			Acrylamide	79-06-1		
			Trichloroethylene	79-01-6		
			Boric acid	10043-35-3 11113-50-1 1330-43-4		
			Disodium tetraborate, anhydrous	12179-04-3		
			Tetraboron disodium heptaoxide, hydrate	1303-96-4 12267-73-1		
			Sodium chromate	7775-11-3		
			Potassium chromate	7789-00-6		
			Ammonium dichromate	7789-09-5		
			Potassium dichromate	7778-50-9		
			Chromium trioxide	1333-82-0		
			2-Ethoxyethanol	110-80-5		
			2-methoxyethanol	109-86-4		
			Cobalt (di)acetate	71-48-7		
			Cobalt (II) carbonate	513-79-1		
			Cobalt diNitrate	10141-05-6		
			Cobalt (II) sulfate	10124-43-3		
			Acids generated from chromium trioxide and their oligomers:			
			Chromic acid	7738-94-5		
			Dichromic acid	13530-68-2		
			Oligomers of chromic acid and dichromic acid	-		
			2-ethoxyethyl acetate	111-15-9		
			stannous chromate	7789-06-2		
			1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4		
			Hydrazine	7803-57-8		
			1-methyl-2-pyrrolidone	302-01-2		
			1,2,3-trichloropropane	872-50-4		
			1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	96-18-4 71888-89-6		

環境負荷物質一覧<添付1>  
List of Environmentally Hazardous Substances<Attachment 1>

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	全量対象物質	管理対象物質	報告対象物質			
			R-151	REACH規則 高懸念物質(SVHC)(第7次)	Dichromium tris(chromate) Potassium hydroxooctaoxidizincate-di-chromate PeNtaZn:chromate octahydroxide AluminoSilicate Refractory Ceramic Fibres (RCF) ZirconAlumNioSilicate Refractory Ceramic Fibres (Zr-RCF) Formaldehyde, oligomeric reaction Products with aNiIiNe (techNical mDA) Bis(2-methoxyethyl) Phthalate 2-methoxyvaNiIiNe: o-AnisidiNe 4-(1.1.3.3-tetramethylbutyl)PheNol (4-tert-OctylPheNol) 1,2-DichloroethaNe Bis(2-methoxyethyl) ether ArseNic acid Calcium arseNate Trilead diarseNate N,N-dimethylacetamide (DmAC) 2,2-dichloro-4,4'-methyleNediaNiIiNe (mOQA) PheNolPhtHaleiN Lead azide Lead styPhNate Lead diPicrate	24613-89-6 11103-86-9 49663-84-5 (JAMP-SN0007) (JAMP-SN0055) 25214-70-4 117-82-8 90-04-0 140-66-9 107-06-2 111-96-6 7778-39-4 7778-44-1 3687-31-8 127-19-5 101-14-4 77-09-3 13424-46-9 15245-44-0 6477-64-1
			R-152	REACH規則 高懸念物質(SVHC)(第8次)	1,2-bis(2-methoxyethoxy)ethaNe (TEGDmE: triolme) 1,2-dimethoxyethaNe: ethyleNe alvcol dimethyl ether (EGDmE) C.I. Basic Blue 26 ([4-[[4-aNiIiNo-1-NaPhThyl][4-(dimethylamiNo)PheNy]lmethyleNe]cyclohexa-2,5-dieN-1-ylideNe]dimethylammoNium chloride) C.I. Basic Violet 3 [4-[4,4'-bis(dimethylamiNo)beNzhydrideNe]cyclohexa-2,5-dieN-1-ylideNe]dimethylammoNium chloride C.I. Solvex Blue 4 (r- or-bis[4-(dimethylamiNo)PheNy]-4 (PheNy)miNo)NaPhtHaleNe-1-methaNo]) C.I. Solvex Violet 8 (4,4'-bis(dimethylamiNo)-4'-(methylamiNo)trityl alcohol) DiboroN trioxide, boric oxide Formamide Lead(II) bis(methaNe)sulfoNate) michler's Base (N,N,N'-tetramethyl-4,4'-methyleNediaNiIiNe) michler's KetoNe (4,4'-bis(dimethylamiNo)beNzoPheNol) TGIC (1,3,5-tris(oxiraNyImethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trioNe) β-TGIC (1,3,5-tris((2S aNd 2R)-2,3-ePoxylProPyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trioNe) Bis(PeNtaBromoPheNy) ether (DecaBDE) PeNtaCosafluoroTridecaNoic acid TricoSafluoroDodecaNoic acid HeNicoSafluoroUdDecaNoic acid HePtaCosafluoroTetraDecaNoic acid 4-(1,1,3,3-tetramethylbutyl)PheNol, ethoxylated - coveriNg well-defiNed substaNces aNd UVCB substaNces. Polymers aNd 4-NoNyPheNol, braNched aNd liNear - substaNces with a liNear aNd/or braNched alkyl chaIN with a carboN Number of 9 covalently bouNd iN PositioN 4 to PheNol, coveriNg also UVCB-aNd well-defiNed substaNces which iNclude aNy of the iNdividual isomers or a combiNatioN thereof DiazeNe-1,2-dicarboxamide (C,C'-azodi(formamide)) Hexahydro-2-beNzofuraN-1,3-dioNe (HHPA), cis-cyclohexaNe-1,2-dicarboxylic aNhydride, traNs-cyclohexaNe-1,2-dicarboxylic aNhydride HexahydromethylPhthalic aNhydride, Hexahydro-4-methylPhthalic aNhydride, Hexahydro-1-methylPhthalic aNhydride, Hexahydro-3-methylPhthalic aNhydride methoxy acetic acid 1,2-BeNzeNedicarboxylic acid, diPeNtyl ester, braNched aNd liNear DiSoPeNtylPhtHaleate N-PeNtyl-isoPeNtylPhtalate 1,2-DiethoxyethaNe N,N-dimethylformamide; dimethyl formamide DibutyltiN dichloride (DBT) Acetic acid, lead salt, basic Trilead bis(carboNate)dihydroxide (basic lead carboNate) Lead oxide sulPhate [Phthalato(2-)]dioxotrilead Dioxobis(stearato)trilead Fatty acids, C16-18, lead salts Lead bis(tetrafluoroborate) Lead oxNiamidate Lead diNitrate Lead oxide (lead moNoxide) Lead tetroxide (oraNze lead) Lead titaNium trioxide Lead TitaNium Zirconium Oxide PeNtalead tetraoxide sulPhate Pyrochlore, aNtimoNy lead yellow Silicic acid, barium salt, lead-doPed Silicic acid, lead salt Sulfurous acid, lead salt, dibasic Tetraethyllead Tetralead trioxide sulPhate Trilead dioxide PhosPhoNate FuraN ProPyleNe oxide; 1,2-ePoxylProPaNe; methyloxiraNe Diethyl sulPhate Dimethyl sulPhate 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidiNe DiNoseb 4,4'-methyleNedi-o-toluidiNe 4,4'-oxydiaNiIiNe aNd its salts 4-AmiNoazobeNzeNe; 4-PheNyIazoaNiIiNe 4-methyl-m-PheNyIediaNiame (2,4-toluene-diamiNe) 6-methoxy-m-toluidiNe (P-cresidiNe) BiPheNyI-4-ylamiNe o-amiNoazotoluene o-ToluidiNe; 2-AmiNotoluene N-methylacetamide 1-bromoProPaNe Cadmium Cadmium oxide Ammonium pentadecafluorooctanoate (APFO) Pentadecafluorooctanoic acid (PFOA) Dipentyl phtHaleate (DPP) 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, whic	77-09-3 110-71-4 2580-56-5 548-62-9 6786-83-0 561-41-1 1303-86-2 75-12-7 17570-76-2 101-61-1 90-94-8 2451-62-9 59653-74-6 1163-19-5 72629-94-8 307-55-1 2058-94-8 376-06-7 - - 123-77-3 85-42-7 13149-00-3 14166-21-3 25550-51-0 18438-60-9 48122-14-1 57110-29-9 625-45-6 84777-06-0 605-50-5 776297-69-9 629-14-1 68-12-2 683-18-1 51404-69-4 1319-46-6 12036-76-9 69011-06-9 12578-12-0 91031-62-8 13814-96-5 20837-86-9 10099-74-8 1317-36-8 1314-41-6 12060-00-3 12626-81-2 12065-90-6 8012-00-8 68784-75-8 11120-22-2 62229-08-7 78-00-2 12202-17-4 12141-20-7 110-00-9 75-56-9 64-67-5 77-78-1 143860-04-2 88-85-7 838-88-0 101-80-4 60-09-3 95-80-7 120-71-8 92-67-1 97-56-3 95-53-4 79-16-3 106-84-5 7440-43-9 1306-19-0 3825-26-1 335-67-1 131-18-0 - 1306-23-6 84-75-3 573-58-0 1937-37-7 96-45-7 301-04-2 25155-23-1 68515-50-4 10108-64-2 -
			R-153	REACH規則 高懸念物質(SVHC)(第9次)	Cadmium Cadmium oxide Ammonium pentadecafluorooctanoate (APFO) Pentadecafluorooctanoic acid (PFOA) Dipentyl phtHaleate (DPP) 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, whic	7440-43-9 1306-19-0 3825-26-1 335-67-1 131-18-0 -
			R-154	REACH規則 高懸念物質(SVHC)(第10次)	Cadmium sulphide Dihexyl ohthalate Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaophthalene-1-sulphonate) (C.I. Direct Red 28) 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) Imidazolidine-2-thione; 2-imidazoline-2-thiol Lead di(acetate) Trixylyl phosphate	1306-23-6 84-75-3 573-58-0 1937-37-7 96-45-7 301-04-2 25155-23-1
			R-155	REACH規則 高懸念物質(SVHC)(第11次)	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear Cadmium chloride Sodium perborate; Perboric acid, sodium salt Sodium peroxometaborate	68515-50-4 10108-64-2 -

**環境負荷物質一覧<添付1>**  
**List of Environmentally Hazardous Substances<Attachment 1>**

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ランク				物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	全量対象物質	管理物質	報告対象物質			
			R-156	REACH規則 高懸念物質(SVHC)(第12次)	Cadmium fluoride Cadmium sulphate 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate, DOTE 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)	7790-79-6 10124-36-4, 31119-53-6 3846-71-7 25973-55-1 15571-58-1 -
			R-157	REACH規則 高懸念物質(SVHC)(第13次)	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% diisobutyl phthalate (EC No. 201-559-5) 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	271-094-0 272-013-1 -
			R-158	REACH規則 高懸念物質(SVHC)(第14次)	1,3-propanesultone 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) Nitrobenzene Perfluorononan-1-oic acid and its sodium and ammonium salts	1120-71-4 3864-99-1 36437-37-3 98-95-3 -
			R-159	REACH規則 高懸念物質(SVHC)(第15次)	Benzo[def]chrysene(Benzo[a]pyrene) 4,4'-isopropylidenediphenol (bisphenol A)	50-32-8 80-05-7
			R-160	REACH規則 高懸念候補物質(SVHC)(第16次)	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 substances which include any of the individual isomers or a combination thereof) 4-tert-butylphenol Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts p-(1,1-dimethylpropyl)phenol	- 98-54-4 552-30-7 3108-42-7, 335-76-2, 3830-45-3 80-46-6
			R-161	REACH規則 高懸念候補物質(SVHC)(第17次)	Perfluorohexane-1-sulfonic acid and its salts 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 (4-HPbl)	- -
			R-162	REACH規則 高懸念候補物質(SVHC)(第18次)	Chrysene Cadmium nitrate Cadmium hydroxide Cadmium carbonate Benz[a]anthracene 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1,6,9.0,2,13,0,5,10]octadeca-7,15-diene ("Dechlorane Plus™") covering any of its individual anti- and syn-isomers or any combination thereof	218-01-9, 1719-03-5 10022-68-1 10325-94-7 21041-95-2 513-78-0 56-55-3 1718-53-2 -
			R-163	REACH規則 高懸念候補物質(SVHC)(第19次)	Octamethylcyclotetrasiloxane (D4) Decamethylcyclopentasiloxane (D5) Dodecamethylcyclohexasiloxane (D6) Lead Disodium octaborate Benzol[ghi]perylene Terphenyl hydroxynated Ethinene diamine Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA) Dicyclohexyl phthalate (DCHP)	556-67-2 541-02-6 540-97-6 7439-92-1 12008-41-2 191-24-2 61788-32-7 107-15-3 552-30-7 84-61-7
			R-164	Small Brominated Alkyl Alcohols (炭素数3-5の臭素化アルキルアルコール類)	Small Brominated Alkyl Alcohols (炭素数3-5の臭素化アルキルアルコール類)	-
			R-165	ドデカクロロドデカヒドロジメタノジベンゾシクロオクテン	ドデカクロロドデカヒドロジメタノジベンゾシクロオクテン	13560-89-9
			R-166	リム酸トリス(2-クロロ-1-メチルエチル)	リム酸トリス(2-クロロ-1-メチルエチル)	13674-84-5
			R-167	sulfur/硫黄	sulfur/硫黄	7704-34-9
			R-168	siloxane/シリコン(シロキサン)	siloxane/シリコン(シロキサン)	-
			R-169	REACH規則 高懸念候補物質(SVHC)(第20次)	2,2-bis(4-hydroxyphenyl)-4-methylpentane Benzokjifluoranthene Fluoranthene Phenanthrene Pyrene 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	6807-17-6 207-08-9 206-44-0 85-01-8 129-00-0 15087-24-8
			R-170	REACH規則 高懸念候補物質(SVHC)(第21次)	2-methoxyethyl acetate Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) 4-tert-butylphenol	110-49-6 - -
			R-171	REACH規則 高懸念候補物質(SVHC)(第22次)	Disohexyl phthalate 2-benzyl-2-dimethylamino-4-morpholinobutylprophenone 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one Perfluorobutane sulfonic acid (PFBS) and its salts	71850-09-4 119313-12-1 71868-10-5 -
			R-172	REACH規則 高懸念候補物質(SVHC)(第23次)	1-vinylimidazole 2-methylimidazole Butyl 4-hydroxybenzoate Dibutylbis(pentane-2,4-dionato-O,O')in bis(2-(2-methoxyethoxy)ethyl) ether	1072-63-5 693-98-1 94-26-9 22679-19-4 143-24-8
			R-173	REACH規則 高懸念候補物質(SVHC)(第24次)	Diocetyl tin diarsate, stannane, dioctyl-, bis(coco acyloxy) derivs. and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-
			R-174	REACH規則 高懸念候補物質(SVHC)(第25次)	2-(4-tert-butylbenzyl)propionaldehyde and its individual Orthoboric acid, sodium salt 2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative /3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA) Glutaral Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17] Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) 1,4-dioxane 4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	- 13840-56-7 3296-90-0 36483-57-5 / 1522-92-5 96-13-9 111-30-8 - - 123-91-1 77-40-7

**環境負荷物質一覧<添付1>**  
**List of Environmentally Hazardous Substances<Attachment 1>**

この一覧は例示物質であるため、一覧に掲載されていない物質で禁止物質に該当する場合、報告する事。

ランク				物質群 / Substance group	物質名 / Substance	CAS No.
含有禁止物質	全量対象物質	管理対象物質	報告対象物質			
				REACH規則 高懸念候補物質(SVHC)(第26次)	tris(2-methoxyethoxy)vinylsilane	1067-53-4
					S-(tricyclo(5.2.1.0 <sup>2,6</sup> )deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8
					6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1
					(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	—
					*(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1782069-91-1
					*(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	95342-41-9
					*(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-25-4
					*(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	36861-47-9
					*(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	741687-98-9
					*(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-30-1
				*(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-21-0	
			R-176	REACH規則 高懸念候補物質(SVHC)(第27次)	N-(hydroxymethyl)acrylamide	924-42-5

注記: 工程内での使用も禁止する物質は※マークを表示。 / Note: Substances whose use in the process is also prohibited are marked with an asterisk (※).

版番号:29

設計管理課 環境品質係

<Attachment 2>

To: Environmental Quality Unit, Design Administration Section,  
Connector Products Division, KYOCERA Corporation

Date:

Company name: \_\_\_\_\_ (Company stamp)

Person responsible: \_\_\_\_\_ (Signature)

## Certificate of Non-use of Environmentally Hazardous Substances

We hereby certify that any of the substances from G-1 and later specified in "*Attachment 1: List of Environmentally Hazardous Substances*" of your *Guideline on Environmentally Hazardous Substances* are not used in parts and products that are delivered to your company, packing materials and any of our manufacturing processes.

Contact for environmental management issues:

Name: \_\_\_\_\_

Tel No.: \_\_\_\_\_

Fax No: \_\_\_\_\_

E-mail: \_\_\_\_\_

To: Environmental Quality Unit, Design Administration Section,  
 Connector Products Division, KYOCERA Corporation

Date: \_\_\_\_\_

Company name: \_\_\_\_\_ (Company stamp)

Person responsible: \_\_\_\_\_ (Signature)

### List of purchased parts, materials, and sub-materials

No.	Description	Classification	Application	Product name	Manufacture	SDS	ICP data
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

\* In the above table, fill purchased parts, materials, and sub-materials used for products delivered to us, Connector Products Division. Sub-materials used in their manufacturing process of such products and materials and sub-materials that may directly touch such products shall be included here. In fields for SDS and ICP data in the above list, enter "O" if it is obtained, enter "x" if it is not obtained. In the case of "x", also fill the date expected for it to be obtained.

Contact for environmental management issues:

Name: \_\_\_\_\_  
 Tel No.: \_\_\_\_\_  
 Fax No: \_\_\_\_\_  
 E-mail: \_\_\_\_\_



## Control of RoHS-Restricted Substances Contained in the Plating Solution

We would like our suppliers who are conducting the plating process for our products to do the control as follows.

1. Measuring content of "Four metals that are restricted from being contained by RoHS" that are contained in the plating film

The content of "Four metals that are restricted from being contained by RoHS" that are contained in respective plating films at base and surface shall be measured by following procedures shown below.

- 1) Target metals: Cadmium (Cd), Lead (Pb), Hexavalent chrome (Cr6+), Mercury (Hg)
- 2) Target plating: Base plating and surface plating
- 3) Measuring method: ICP or atomic absorption method (Cd, Pb, Hg), diphenylcarbazide atomic absorption method (Cr6+)
- 4) Frequency: Once a year
- 5) Tolerance limit: Tolerance limit for each target metal shall be as follows.  
Cd: Detection limit or less  
Pb: Detection limit or less  
Cr6+: Detection limit or less  
Hg: Detection limit or less
- 6) Record, report: The result of the measurement including the following shall be reported to QA Department of Connector Products Division in KC.
  - Result of the measurement
  - Applicable products
  - Plating process to have been used (e.g. Process number)
  - Analysis result of plating solution used latest (The result of measurement of "Four metals that are restricted from being contained by RoHS" shall be included.)

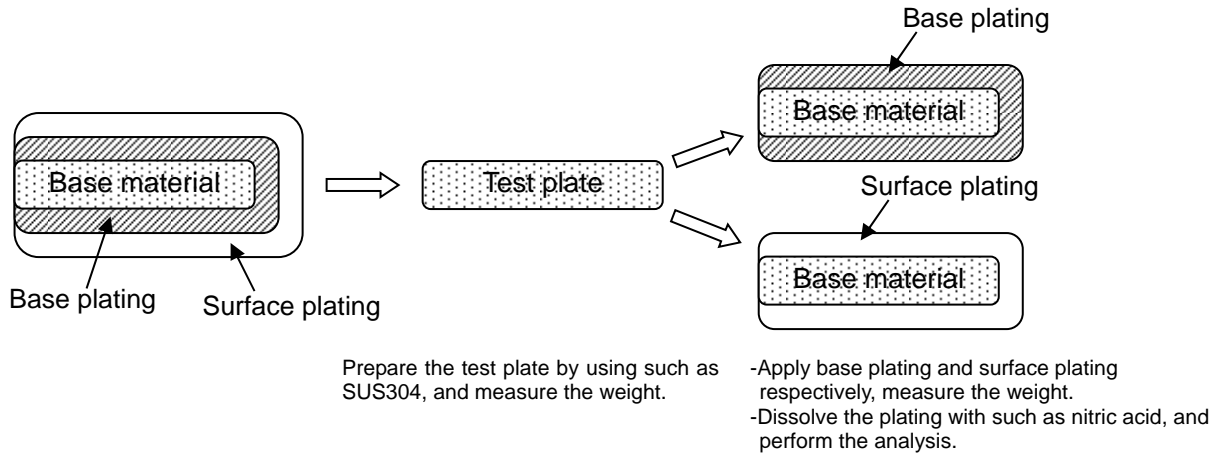
7) Action in case of content in excess of the tolerance limit:

When a measured value is larger than the tolerance limit, confine the lot in problem immediately, report it to and follow the instructions given by QA Department of Connector Products Division in KC.

8) Measuring method

For measuring content of "Four metals that are restricted from being contained by RoHS" that are contained in the plating film, it is necessary to measure the concentration contained in the plating. In order to free from influence of the base material, the following steps shall be taken by you.

- a) Prepare a test plate such as SUS304 to measure the solo weight.
- b) Plate the base plating and measure the weight.
- c) Dissolve the base plating with nitric acid or etc. and analyze it.
  - In consideration of mixing base material into the plating specimen, the solo base material shall be also analyzed.
  - Perform ICP, atomic absorption method, or diphenylcarbazide atomic absorption method (Cr6+) for the analysis.
  - Calculate the weight of plating film from the difference between the solo base material and the plated one.
- d) As for any surface plating, also plate it on the test plate to perform an analysis in the same procedures as 3).
- e) As for the measurement, a quantitative analysis shall be done by any third party laboratory obtaining ISO/IEC17025.



There are many other methods to analyze plated layer than the one shown above, and the method would vary according to institute to conduct the analysis. Arrangements shall be made carefully between you and the institute.

## 2. Control of the plating solution

The measurement described in 1 above shall be conducted annually to verify that no restricted substance is contained in your products beyond the specified values. If it is detected in the verification that any restricted substance beyond the specified values is contained, it would be a critical issue. In order to avoid the risk as much as possible, control the plating solution as shown below.

### 1) Analyzing the plating solution periodically

When the plating solution is subjected to the regular analysis, also the content of four metals that are restricted from being contained by RoHS shall be measured.

- a) Target metals: Cadmium (Cd), lead (Pb), chrome (Cr), Mercury (Hg)
- b) Target plating bath: All of plating baths that are used for your products delivered to KC
- c) Measuring method: ICP or atomic absorption
- d) Frequency: Once a month or more

Although it is recommended to measure the target metals when analyzing the plating solution, if it is impossible to conduct the measurement simultaneously, conduct the measurement separately once a month or more.

If you have done actual measurement at a frequency of once a month or more in the past some years, the measurement frequency would be reconsidered as long as such records are kept in each factory and you can guarantee that the plating solution in your process does not contain any of target substances to be measured.

If any addition or change is applied to the plating solution, the measurement shall be done once a month or more frequently because the earlier results will not be effective any more.

### 2) Tolerance limit

The tolerance limit of the target metals in a plating solution shall be specified by you because it varies by other components contained in the solution, production conditions, or etc.

The tolerance limit specified by you shall be reviewed every time when the target metals contained in the plated film of products are measured.

### 3) Action in case of content in excess of the tolerance limit:

For products (contacts) having a possibility to have been plated in the bath of which plating solution containing target metals beyond the tolerance limit specified by you, please make sure that they have no problem as products by measuring the target metals contained in the plated products through any method set forth in "2. Control of the plating solution".

When it is proved that they have no problem as products, keep records of measurement results of the plating solution and the plating film, and any action if taken for the succeeding production. When shipping the products of such lots, the card of changing point shall be attached.

If it is found in the result of measurement on the plated film that the tolerance limit shown in 1. is violated, immediately notify it to Quality Assurance Department of Connector Products Division in KC with the result of the measurement and follow instructions issued from the department.

Voucher for Delivery and Receipt for  
Guideline on Environmentally Hazardous Substances of  
Connector Products Division,  
Corporate Electronic Components Group,  
KYOCERA Corporation

Date:

Business Administration Department,  
Connector Products Division, Corporate Electronic Components Group,  
KYOCERA Corporation

Please receive Guideline on Environmentally Hazardous Substances of Connector Products Division, Corporate Electronic Components Group, KYOCERA Corporation, Rev. 26, read it thoroughly and carefully, and comply with it for quality maintenance and improvement of products.

We have agreed Guideline on Environmentally Hazardous Substances of Connector Products Division, Corporate Electronic Components Group, KYOCERA Corporation mentioned above.

Company name:

Date of receipt:

\_\_\_\_\_

\_\_\_\_\_

Name of responsible person (Recipient)

Section & Title

\_\_\_\_\_

\_\_\_\_\_

List of applicable major laws & regulations needs to be reported. <Attachment 6>

Ozone Layer Protection Law	The law that aims to regulate the manufacturing, suppress emissions and rationalize the usage of ozone depleting substances and defines the specific measures. Production of specified CFCs and specific halons has been banned, and other substances such as HCFCs will be banned sequentially.
Global warming prevention law	The law that aims to limit emissions of greenhouse gases such as carbon dioxide and PFC and other greenhouse gases for the prevention of global warming.
Industrial Safety and Health Act	The law that aims to ensure the safety and health of workers to establish a comfortable work environment. It defines permissions, ban on production, chemical substances subject to be indicated, and etc.
Chemical Substances Control Law	The law that aims to prevent environmental contamination caused by chemical substances that may be harmful to human health. For manufacturing or importing any new chemical substance, the use of such substance will be regulated by evaluating the persistent characteristic of the substance.
Specified Chemical Ordinance	The regulation defined in Industrial Safety and Health Act in order to prevent worker's health disturbance such as skin problem, nervous disorder. It requires to identify the toxicity of substances to be used and to take measures for improving the situation in relevant facilities so as to minimize the duration and extent of the exposure to chemical substances.
PRTR Law	It aims to promote voluntary improvement of the management of chemical substances by business operators and to prevent any impediments to the preservation of the environment. It prescribes to confirm and report release amounts, etc. of specific chemical substances in the environment as well as to provide information concerning such as properties (MSDS) of such substances.
REACH Regulation	It is the regulation on registration, evaluation, authorization and restriction of chemicals. It regulates sales and use of hazardous chemical substances having properties such as carcinogenicity and mutagenicity, and requires to report if SVHC (Substances of Very High Concern) contamination is over 1000ppm in an article.
RoHS Directive (2011/65/EU)	Directive that bans containing certain hazardous substances in electrical and electronic equipment. Certain hazardous substances (Lead, mercury, cadmium, hexavalent chromium, PBB, PBDE)
Denmark Directive	It bans to import or sell products containing one or more of four classified phthalates (DEHP, BBP, DBP and DIBP) in a concentration greater than 0.1 % by weight.
Canada: Prohibition of Certain Toxic Substances Regulations (SOR/2012-285)	It bans any products containing BNST from manufacturing, using, selling and importing in Canada. BNST (Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene) is an antioxidant used as an additive in vehicle engine oil and in some commercial and industrial lubricants.
Stockholm Convention	It aims to protect human health and the environment from persistent organic pollutants and stipulates: (1) Prohibit and/or eliminate the production and use, as well as the import and export, of the certain 18 substances listed in Annex A such as PCB (2) Restrict the production and use, as well as the import and export, of the certain 2 substances listed in Annex B such as DDT (3) Reduce or eliminate releases from unintentionally produced the certain 4 substances listed in Annex C such as dioxin
Montreal Protocol	It is a protocol adopted in 1987 in Canada, which specifies substances that may deplete the ozone layer based on Vienna Convention and aims to regulate the production, consumption, import and export of such substances.
ELV Directive	It aims to promote prevention of waste generation from vehicles, reuse of used vehicles and their parts, and reduction of wastes through recycling or in other forms. Member countries ensure that any of cadmium, lead, mercury and hexavalent chromium are not included in materials and parts of vehicles placed on the market on July 1, 2003 and later.
CLP Regulation	Regulation on classification, labelling and packaging of substances and mixtures announced in EU on December 31, 2008 and explosive articles such as gunpowder.
Water Pollution Control Law	Established in 1970 (Showa 45), and it aims to prevent the pollution of water in the Public Water Areas by regulating effluent discharged by factories or establishments into the Public Water Areas, thereby to protect human health and to preserve the living environment.
POPs Regulation	POPs (Persistent Organic Pollutants) are substances that are persistent, bio-accumulative, long-range transporting, and toxic (for human health and ecosystem). Global pollution with POPs was concerned and the Stockholm Convention on Persistent Organic Pollutants came into effect in May 2004.
California Prop 65	The Safe Drinking Water and Toxic Enforcement Act of 1986, California Health and Safety Code, Division 20, Chapter 6.5, sections 25249.5 through 25249.13.

	<a href="http://oehha.ca.gov/prop65/prop65_list/Newlist.html">http://oehha.ca.gov/prop65/prop65_list/ Newlist.html</a>
Washington State's List of Chemicals of High Concern to Children (CHCC)	<a href="http://apps.leg.wa.gov/WAC/default.aspx?cite=173-334-130">http://apps.leg.wa.gov/WAC/default.aspx? cite=173-334-130</a>

Note) As each of the above law and regulations are subject to change, please refer to the respective latest version of them for proper and detailed information.