THE NEW VALUE FRONTIER

KYOCERA

Kyocera Green Procurement Guideline (Brochure for Business Partners)

Revision 6

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[Contents]

This guideline explains the Kyocera group's basic criteria for green procurement. A guideline issued by the group company takes priority when it is separately available.

Additional instructions issued by any Kyocera Corporation business unit should be followed in addition to this guideline.

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 philosophy, 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.

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 Environmental Charter (an abstract)

[Environmental Management Policies]

1. Compliance with internal environmental standards, of which, global environmental protection is made the number one priority
2. More efficient utilization of resources and energy, development of processing technologies
3. Development of earth-friendly products of two types: Environmental Improvement Products that will make a positive contribution to the improvement of the global environment; and Environmentally Gentle Products that will achieve a far lower burden on the global environment
4. Cooperation with government environmental policies, and participation in or support of social contribution activities

[Environment Management Objectives]

1. In order to minimize the destruction of the natural environment and any harmful effects on the ecosystem, Kyocera will establish and comply with internal standards that are equal to or more stringent than the standards specified in applicable international agreements, the legal/governmental regulations of relevant countries and the regulations of regions where the Company's facilities are located.
2. At all levels, Kyocera will study and evaluate scientifically the effects of its business activities on the environment, and take the necessary protective measures.
3. Kyocera will develop processing technologies and production facilities with maximum resource and energy efficiency in all manufacturing processes. At the same time, the Company will aim to reduce raw material utilization in all processes.
4. Kyocera will promote in-house energy conservation activities, such as more efficient use of electricity and fossil fuels, the introduction of high efficiency equipment, and the reutilization of thermal energy.
5. Kyocera intends to purchase recyclable materials that contribute to resource conservation. At the same time, the Company will maximize resource utilization by establishing recycling systems for waste-water and waste materials. The Company will take aggressive steps to recycle, decontaminate and reduce the volume of all of its industrial waste.
6. Kyocera will research and develop "Environmental Improvement Products" that make a positive contribution to the improvement of the global environment.
7. Kyocera will research and develop "Environmentally Gentle Products" that are gentle to Planet Earth and place a lighter burden on the environment at every stage of production, sales, distribution, consumption and disposal.
8. Kyocera will promote the "greening" (forestation) of its facilities in an organized effort to create lush and inviting grounds.

Kyocera's Green Procurement Activities

In 1998, Kyocera established its Rules on Green Procurement. Based on these Rules, we endeavor to procure materials and other articles friendly to the environment. Additionally, we ask our business partners to cooperate with us according to our Guideline on Green Procurement.

The Rules on Green Procurement specify the following three subjects relevant to our green procurement activities:

1. Basic Approach to Green Procurement

We make it a principle to purchase just the right amount of necessary articles at the time they are needed and strive to make and use purchases in conformance with the following ideas:

a. Determination of purchase specifications and selection/procurement of articles with the impact on the environment and the ecosystem reduced in all stages of manufacture, distribution, use and disposal.
b. Promotion of systematic purchasing and use to preclude inefficiencies
c. Consideration in purchasing of such aspects as resource/energy saving, reusability, recyclability, regeneration of materials etc., and the ease of processing/disposal
d. Reductions in the amounts of purchased articles by avoiding wasteful use, and prolonging service life through adjustment, repair, reconstruction, function upgrading etc.

2. Survey and Environmental Audit of Our Business Partners' Environmental Protection Activities

We survey our business partners regularly regarding ISO 14001 accreditation, environmental management, environmental protection activities, etc.

Following such surveys, we may communicate environmental-related requests to those business partners we think need to improve environmental management in view of survey results, and also, if necessary, conduct environmental audits.

3. Standards for Improving the Environmental Features of Purchased Articles

a. Control of Chemical Substances Contained in Purchased Articles
   We confirm contained chemical substances by obtaining MSDS, Green Procurement Survey Tool, Report on Constituent Contents etc., and at the same time, control chemical substances thoroughly in accordance with their harmful effects, etc.
b. Consideration of the Environmental Impacts of Purchased Equipment
   When introducing equipment, we determine specifications after considering environmental impact. Further, when installing equipment, we control operational status thoroughly at the same time as confirming its specifications.
c. Specifications of Packaging Materials Used for Purchased Articles
   We endeavor to reduce the amount of package materials used, promote the reuse of such materials, and introduce new materials that can be recycled more easily. Additionally, we prohibit the use of materials containing harmful substance(s) (*1), as well as exterior package/cushioning materials made of vinyl chloride.

*1 Hazardous Substances

Mercury and its compounds	Organic phosphorous compounds	Cyanogen compounds	Tetrachloroethylene
Cadmium and its compounds	Hexavalent chromium compounds	PCB	1,1,1-trichloroethane
Lead and its compounds	Arsenic and its compounds	Trichloroethylene	Carbon tetrachloride

d. Material Marking of Purchased Articles

To reduce environmental impact, we promote material marking for purchased resin-based articles by designating the specifications of the articles and holding discussions with business partners. This step is aimed at furthering the recycling of purchased articles through sorting at the time of disposal.

Kyocera's Guideline on Green Procurement

1. Objective

Kyocera believes that the procurement of products and services that impose small environmental burdens from business partners who engage actively in activities for environmental protection is "Green Procurement". Accordingly, we like to survey our partners' environmental protection activities, as well as the environment-friendly features of the articles we procure from them. In making purchase decisions, we will give priority to purchases from those partners who have been making active efforts in global environmental protection.

We expect that the implementation of the Guideline will help Kyocera introduce products that contribute to improving the global environment, and that reduce as much as possible the environmental burdens imposed at each stage of manufacture, sale, distribution, use and disposal.

We hope for our partners' active cooperation based on this Guideline.

2. Scope

(1) The Guideline covers those businesses that supply materials and other articles to Kyocera (comprising vendors and outsourcing businesses).

(2) It also covers raw materials, parts (that are either available on the market or custom-made through outsourcing), package materials, production facilities and etc. procured by Kyocera. The Company will provide suppliers with a list of articles for which chemical substance contents etc. should be surveyed.

3. Definition of Terms

(1) Substances that Exert an Environmental Load
This term refers to prohibited chemical substances (ranks A and B), and to controlled chemical substances (rank C).

(2) Prohibited Chemical Substances (Rank A)
This term refers to those chemical substances that must not be contained in any articles, and whose use in manufacturing processes is prohibited. These substances are listed in Table 1.

(3) Prohibited Chemical Substances (Rank B)
This term refers to those chemical substances that must not be contained in any articles. These substances are listed in Table 2. Some rank B prohibited chemical substances will be prohibited immediately after the issue of the Guideline. Other rank B chemical substances will be prohibited after the elapse of a certain period following the issue of the Guideline. For some substances in this category, provisions may be made to limit their application or specify threshold values.

(4) Controlled Chemical Substances (Rank C)
Since neither an alternative material or technology have been established, this term refers to those chemical substances that may be used intentionally, on condition that the status of their use is monitored, and that due consideration is given to recycling and other steps for appropriate management. These substances are listed in Table 2.

(5) Intentional Use
This term refers to the conscious addition of a substance by a manufacturer, or the use of a material with a substance added, to create a basic raw material that is added as an ingredient

to a product, to achieve a targeted performance or function, or to maintain desirable conditions etc. in a certain process.

(6) Contain (Contained/Content)

This term refers to the following cases:

(i) When a chemical substance is included in a part, material or product as an ingredient, whether intentionally or not;

(ii) When a chemical substance is mixed with other ingredients to maintain desirable conditions, quality etc. in a production process, and thus becomes included in a part, material or product;

(iii) When a chemical substance is used in a production process, and remains in, or sticks to, the finished product, part, material or other.

According to our interpretation, the term also refers to cases in which a chemical substance is contained in a natural material, or in which impurities remain after the completion of an industrial refining process. Such chemical substances are not regarded as contained in an article if such containment at any significant level is not technically anticipated, or if no information on such contents is available; however, this does not apply if such containment is problematic in view of relevant domestic and/or foreign regulations.

(7) Impurity

This term refers to the following:

(i) Substances contained in natural materials that cannot be removed completely using existing technology in a process in which the materials are refined for industrial use;

(ii) Substances generated during a chemical synthesis reaction that cannot be removed completely using existing technology;

(iii) Substances (generally referred to as dopants) that are mixed with other ingredients in the manufacture of semiconductor ICs to control semiconductor characteristics.

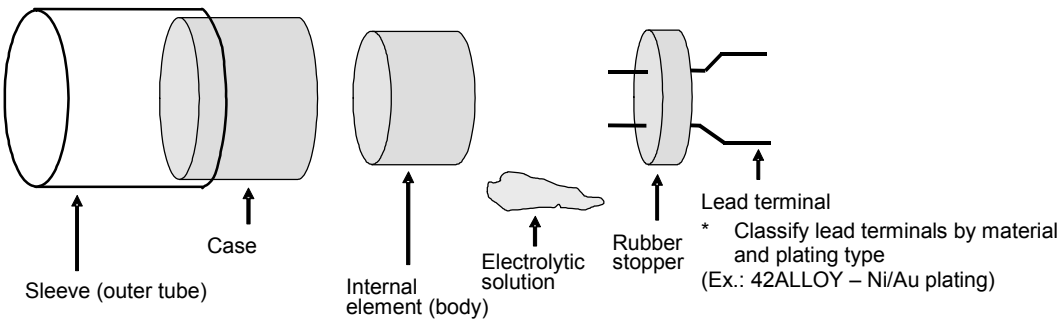
(8) Threshold (Roughly Synonymous with Allowable Value)

This term refers to the allowable content in an application.

(9) Section (Relevant Section)

This term refers to a section containing certain chemical substances that are deemed to be uniform in property. “Relevant section” refers to the section of a part that contains the surveyed chemical substances.

Sample Section Names: Electrical parts (resistors, capacitors etc.)



(10) MSDS
This term refers to Material Safety Data Sheet describing the properties and handling of chemical substances etc. in conformity with the provisions of the PRTR Law (Law Concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in their Management) and Industrial Safety and Health Law.

(11) Minerals
This term refers to naturally produced minerals that have inorganic crystal structure.

(12) Substance (chemical substance)
This term refers to an individual chemical substance.
Ex. lead oxide, nickel chloride, benzene, etc.

(13) Preparation
This term refers to a mixture (including solvent) intentionally comprising two or more individual chemical substances.
Ex. Paints, inks, solders prior to use, adhesives, alloys, plating material, detergent, etc.

(14) Article (product formed into a shape)
This term refers to an item of specific shape, surface, or design provided during manufacture which determines functions in final use at a level beyond that provided by its chemical composition.
Ex. Capacitors, LSIs, lead frames, screws, etc.

4. Requests to Our Business Partners

In order to promote green procurement, we need to secure the understanding and cooperation of our business partners. To that end, we request our partners take the actions described in the following sections. By granting this request, our partners will facilitate our surveys of their activities for environmental protection, and the environment-friendly features of their products.

4.1 Environmental Protection Activities of our business partners

4.1.1 Establishment of the environmental management system

We will give preferential treatment to partners implementing environmental management systems for development, production and sales at their places of business. Such systems must be equivalent to, or based on, that described in ISO 14001.

4.1.2 Establishment of the environmental quality management system for products

We will give preferential treatment to partners implementing systems for properly controlling chemical substances contained in parts and materials delivered to our company. We recommend “Guidelines for the Management of Chemical Substances in Products” issued by Japan Green Procurement Survey Standardization Initiative (JGPSSI) for the systems for controlling chemical substances contained in products,

4.1.3 Confirmation of environmental protection activity condition

(1) Implementation of surveys on environmental protection activity condition
We would like to periodically check the environmental protection activity condition of our

partners in accordance with the classification of Table 1. We ask you to check the activity conditions for each of your business places on the basis of “Survey Sheet for Environmental Protection Activity [Environmental Management System]” (Form 1-1)” and “Survey Sheet for Environmental Protection Activity [Product Environmental Quality Control System]” (Form 1-2)” and send the survey sheet to our procurement division by e-mail. ※There are several organizations with different control systems in the same business place, submit the survey sheet in each control organization. You are the business firm, submit a survey sheet on the activity condition of your supplier or outsourcee who manufactures the products to be delivered to our company.

The survey sheet is requested to be submitted every year. The type of survey sheet to be submitted and the deadline for submission will be notified to you by our procurement division.

[Table 1: Classification of environmental protection activity surveys]

The contents to be checked	Survey Sheet	Targets of survey	Frequency
Establishment and operating condition of the environmental management system and others and observing condition of environment-related laws and regulations	Survey Sheet for Environmental Protection Activity [Environmental Management System](Form 1-1)	All our partners	Once a year
Construction and operating conditions of product environmental quality control system	Survey sheet for Environmental Protection Activity [Product Environmental Quality Control System] (Form 1-2)	Our partners who delivery materials or products that compose our products and packaging material and our partners who delivery materials or products that may exert effect on chemical substances in our products and packaging material.	Once a year

(2) Implementation of environmental audits

We will audit on our partners when we evaluate, audit is necessary based on the survey sheet submitted.

(3) Notification of evaluation results

Based on the results of survey sheet submitted and audits conducted, we will evaluate the environmental protection activity condition at our partners and notify the results to our partners.

Depending on the evaluation results, we may request our partners to improve the system.

4.2 Environment-friendliness of procured products

4.2.1 Reduction of environmental impacts in procured products

We ask partners to make an active effort to ensure the following with respect to articles delivered to our company:

(1) Non-containment/Disuse of Substances that Exert an Environmental Load
Articles do not contain any substances that exert an environmental load as specified by us. Alternatively, such substances are controlled satisfactorily.

(2) Energy/Resource Saving
Articles are an improvement over conventional articles in terms of resources and energy saved at each stage of manufacture, use and disposal.

(3) Ease of Recycling
Compared to conventional articles, the articles are easier to disassemble and sort, facilitating recycling.

(4) Reduction of Package Materials
Articles require a smaller volume of package materials than conventional articles.

4.2.2 Submission of information on environmental hazardous substances included in procured products

Our partners are requested to submit the documents of “Table 2” specified in the “target product list.”

Incidentally, our materials division will notify separately our partners of when the documents should be submitted.

[Table 2: Submitted documents for information on substances of environmental concerns]

<table>
<tr><td colspan="2">Submitted documents</td><td colspan="2">Need or no-need of submission</td><td rowspan="2">Remarks</td></tr>
<tr><td>Form No.</td><td>Title of the form</td><td>Chemical substance and preparation</td><td>Article*1</td></tr>
<tr><td>Form 2</td><td>Warranty of non-use Prohibited Chemical Substances</td><td>Submission is necessary.</td><td>Submission is necessary.</td><td></td></tr>
<tr><td>-</td><td>Report on Constituent Contents</td><td rowspan="2">Submission is necessary.</td><td rowspan="2">Submission is necessary.</td><td rowspan="2">Which could be used, Green Procurement Surv Tool (JGPSSI format) or Report on Constituents, will be notifiy.</td></tr>
<tr><td>Form 3</td><td>Green Procurement Survey Tool (JGPSSI format)</td></tr>
<tr><td>-</td><td>JAMP MSDSplus</td><td>Need or no-need of submission will be notified</td><td></td><td></td></tr>
<tr><td>-</td><td>JAMP AIS</td><td></td><td>Need or no-need of submission will be notified</td><td></td></tr>
<tr><td>-</td><td>MSDS</td><td>Submission is necessary.</td><td>Submission is necessary.</td><td></td></tr>
<tr><td>-</td><td>Analysis data</td><td>Need or no-need of submission will be notified.</td><td>Need or no-need of submission will be notified.</td><td>Target products necessary for analysis data and detailed analysis methods will be notified.</td></tr>
<tr><td>Form 4</td><td>Certificate of constituent Contents</td><td>Need or no-need of submission will be notified.</td><td>Need or no-need of submission will be notified.</td><td>This is a format submitted to guarantee each delivery lot. Details will be notified.</td></tr>
<tr><td>Form 5</td><td>Application for change</td><td>Submission is necessary.</td><td>Submission is necessary.</td><td></td></tr>
</table>

*1: Packaging materials for our products delivered to our customers are included, too.

[Explanation of submitted documents]

■ Warranty of non-use Prohibited Chemical Substances (Form 2)

This form is to certificate the no containing of the Prohibited Chemical Substances (Rank A or B) listed in Kyocera Green Procurement Guideline as well as nonuse of Prohibited Chemical Substances of Rank A in manufacturing processes.

■Survey Response Tools (JGPSSI format)

Report information on chemical substances contained in the products delivered to our company by the use of the JGPSSI format. Incidentally, submit the survey format when we request and when constituent materials are changed. .

[Report Criteria]

a. Chemical substances added intentionally, or detected to be contained in any amount.
b. Chemical substances that are not added intentionally, but contained as impurely.

■JAMP MSDSplus, AIS (JAMP Tools)

Report information on chemical substances contained in the products delivered to our company by the following tools;

Chemical substances and preparation => MSDSplus

Article =>AIS

Incidentally, submit the survey format when we request and when constituent materials are changed.

[Report Criteria]

a. Chemical substances added intentionally, or detected to be contained in any amount.
b. Chemical substances that are not added intentionally, but contained as impurely.

■ Report of Constituent Contents (attached Form 3)

Two types of formats are available, one for “chemical substance” and “preparation” and the oth er for “articles”.

Report all the constituents that form products delivered to our company by the use of Report on Constituent Contents (Forms 3-1 and 3-2). Incidentally, submit the report when any material is newly adopted, when constituent material is changed, and when we request.

[Report Criteria]

a. Chemical substances added intentionally, or detected to be contained in any amount.
b. Chemical substances that are not added intentionally, but contained as impurely.
(If content ratio is not identified but the substance may be contained as impurities, report the substance name only.)

■ MSDS

Submit MSDS complied with the PRTR Law and Industrial Safety and Health Law.

■ Analysis Data

Include “analysis method, pre-conditioning method, analysis equipment manufacturers, equipment No., method detection limit, calibration curve data, and analysis report” in the analysis data.

The analysis methods, in principle, comply with those declared in Attached Table 2, but can be accepted if combinations of pre-conditioning and analysis equipment can certificate that method detection limit is lower than the thresholds prescribed in Attached Table.

Submit the analysis data when any material is newly adopted, when constituent material is

changed, and when we request.

■ Certificate of Constituent Contents (Form 4)

Make sure the relevant delivered lot can certificate the following content and enter the content that corresponds to the following with the inspection report, etc. of the members to be delivered: "We hereby certify that this content is same as the content of the Green Procurement Survey Tools (JGPSSI format) or the content of the Report on Constituent Contents submitted on MM/DD/YY."

For articles with no Inspection report etc., provided, please use attached Form 4 (Certificate of Constituent Contents).

■ Application for Change (Form 5)

If some of the contents of a delivered article have changed or if such a change is likely to take place (regarding material specifications, the supplier etc.), the change should be reported in advance by submitting the following documents:

(i) Application for Change (attached Form 5)

(ii) Documents already submitted, which need to be re-submitted as a result of the change.

In the event that the present guidelines are changed because of changes in law, ordinances, social circumstances, customer needs, and others, submit necessary documents that correspond to the content changed for goods continuously supplied.

4.3 Others

(1) When the Partner is a Manufacturer

If a manufacturer with whom we have a business relationship procures parts or materials from other producers to produce articles for delivery to us, or if the manufacturer entrusts another business with the finishing of an article, the manufacturer is asked to direct the producer or business to carry out environmental protection activities in accordance with this Guideline and confirm that such activities fulfill related requirements. Additionally, the manufacturer is requested to provide all necessary support to producers and businesses in this regard.

(2) When the Partner is a Trading Company

Any trading company with whom we have a business relationship is asked to communicate this Guideline to manufacturers from whom it purchases articles for delivery to us. As well, trading companies are requested to direct such manufacturers to carry out environmental protection activities in accordance with the Guideline. Additionally, trading companies should collect information on the status of compliance with the Guideline from such manufacturers, and provide this information to us.

(3) We make the information submitted from your company available in Kyocera Corporation and use for control of environmental hazardous substance and for answer customer's inquires. In addition, we may communicate the information from your company to third party as Kyocera's information for compliance with law.

[Table 1] List of Prohibited Substances (Rank A)

No	JGPSSI Substance Group Classification No. *1	Substance group	Relevant laws, ordinances etc.
1	C04	CFCs (Annex A Group I substances in the Montreal Protocol)	Ozone Layer Protection Law (Specific Substances) *2
2		Halons (Annex A Group II substances in the Montreal Protocol)	
3		Other CFCs (Annex B Group I substances in the Montreal Protocol)	
4		Carbon tetrachloride (Annex B Group II substance in the Montreal Protocol)	
5		1.1.1-trichloroethane (Annex B Group III substance in the Montreal Protocol)	
6		Bromochloromethane (Annex C Group III substance in the Montreal Protocol)	
7		Methyl bromide (Annex E substance in the Montreal Protocol)	
8		HBFCs (Annex C Group II substances in the Montreal Protocol)	
9		HCFCs (Annex C Group I substances in the Montreal Protocol)	

Note 1: This Guideline does not cover Prohibited Substances (rank A) not used directly in production processes. For instance, it does not cover such substances as coolants for air-conditioning, and agents for fire extinguishers.

*1: This is a number assigned to each substance group by JGPSSI for classification of the substance.

*2: Details of Specific Substances in the Ozone Layer Protection Law are shown in Table 4.

[Table 2] List of Prohibited/Controlled Chemical Substances (Rank B/C)

No.	Classification	JGPSSI Substance Group Classification No. *1	Substance group	Threshold value *2	Date of restriction	Applications	Rank	Remarks
1	Metals and metal compounds *10	A05	Cadmium and cadmium compounds	5 ppm	Immediate	Paints, inks, plastics, package materials *3	B	
				20 ppm	Immediate	Solder	B	
				*4	Immediate	Batteries installed to Kyocera's products and shipped to Kyocera's customer.	B	
				100 ppm	Immediate	Applications other than those for rank B (paints, inks, plastics, package materials, solder) and rank C [metals that contain zinc (zinc die cast, galvanizing, etc.)]	B	
				-	-	- Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC amending Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations - Cadmium in Optical and filter glass - Cadmium in printing inks for the application of enamels on borosilicate glass - Cadmium alloys as electrical/ mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more. - Cadmium in photoresistors for optocouplers applied in professional audio equipment until 31 December 2009. - Cadmium and cadmium oxide in thick film pastes used on aluminum bonded beryllium oxide.	C	
				[Exceptions]		・ Substances in equipment, tools, jigs, dies etc., when there is no possibility of their becoming contained in any products (Ex.: cadmium contained in a die (silver braze) for press working)		
				(Analysis method) (a) Simple analysis (screening measurement) [Method] X-ray fluorescence spectroscopy [Equipment] Energy Dispersive X-ray Fluorescence Spectrometer and wave length dispersive X-ray Fluorescence Spectrometer [Summary] After cutting and pulverizing samples, collect samples of a predetermined volume and weight and guide them into the analysis equipment; this enables analysis as to whether or not cadmium is contained as well as the order analysis in a simplified manner. This is suited for analysis of resin, rubber, metal, glass, ceramic members. Using semi-quantitative analysis software (fundamental parameter method) and quantitative analysis software (calibration curve method) incorporated in the equipment, measure the content. (b) Detailed analysis (quantitative analysis) [Method] ICP optical emission spectrometry [Equipment] ICP optical emission spectrometer (ICP-OES), ICP mass spectrometer (ICP-MS), atomic absorption spectrometer (AAS) [Summary] Completely dissolve and analyze samples. In the event that any residue is generated, completely dissolve by an alkali fusion method, etc. Introduce the prepared solution sample into the ICP-OES and from the calibration curve prepared by the standard solution, measure the concentration of cadmium in the solution sample, and convert into the cadmium content in solid samples.				
2		A07	Hexavalent chromium compounds	100 ppm	Immediate	Package materials *3	B	
				1000 ppm	Immediate	Applications other than those for rank B (package materials) and rank C [rustproof treatment on plating surface, element of ink and paints]	B	
				-	-	- Products required high corrosion resistance without alternative technology - Hexavalent chromium used to prevent the corrosion of carbon steel cooling system in absorption-type refrigerators	C	
				[Exceptions]		・ Substances in equipment, tools, jigs, dies etc., when there is no possibility of their becoming contained in any products		
				(Analysis method) (1) Simple analysis (screening measurement) [Method] X-ray fluorescent spectroscopy [Equipment] Energy Dispersive X-ray Fluorescence Spectrometer and wave length dispersive X-ray Fluorescence Spectrometer [Summary] After cutting and pulverizing samples, collect samples of a predetermined volume and weight and guide them into the analysis equipment; this enables analysis as to whether or not chromium is contained as well as the order analysis in a simplified manner. This is suited for analysis of resin, rubber, metal, glass, ceramic members. Using semi-quantitative analysis software (fundamental parameter method) and quantitative analysis software (calibration curve method) incorporated in the equipment, measure the content. This method is not intended to measure the amount of hexavalent chromium but to measure the amount of chromium. (2) Detailed analysis (quantitative analysis) [Method] Diphenylcarbazide absorption photometry [Equipment] Absorptiometer, ion chromatography equipment [Summary] After extracting samples by boiling water, submit the extract solution to the analysis. After extracting by the alkali solution, dilute with ion-exchange water until a constant weight is reached. Selectively determine hexavalent chromium contained in the assay sample solution using diphenylcarbazide absorption photometry and ion chromatography. From the calibration curve prepared by the standard solution, measure the concentration of hexavalent chromium in the solution sample and convert into the hexavalent chromium content in the sample.				

No.	Classification	JGPSSI Substance Group Classification No. *1	Substance group	Threshold value *2	Date of restriction	Applications	Rank	Remarks
3	Metals and metal compounds *10	A09	Lead and lead compounds	100 ppm	Immediate	Paints, inks, plastics, package materials *3	B	
				*4	Immediate	Batteries installed to Kyocera's products and shipped to Kyocera's customer.	B	
				1000 ppm	Immediate	Applications other than those for rank B (paints, inks, plastics, package materials) and rank C [surface treatment and solders for external electrodes and lead terminals of components]	B	
				-	-	- Electroless nickel/gold plating; electrolytic gold plating; parts, materials and chemicals used for such plating; - Lead in optical and filter glass - Lead contained in the glass parts of cathode ray tubes, electronic parts [resistor, conductive paste, adhesive, glass frit, and encapsulation glass materials are included.] and fluorescent tubes - Lead contained as alloy content in steel up to 0.35 wt%, in aluminum up to 0.4 wt%, or in copper [brass and the phosphorus bronze are included.] up to 4 wt% - Lead in high-melting point solder (Lead based alloys containing 85 % or more lead in weight) - Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signal, transmission as well as network management for telecommunications - Lead in ceramic electronic parts [For instance, materials used for piezo-electric] - Lead in lead-bronze bearing shells and bushes - Lead used in compliant pin connector systems - Lead used as coating material for thermal conduction module sealing - Lead in solders consisting of more than two elements for connection between pins and package of microprocessors with a lead content of more than 80% and less than 85% in weight - Lead in solders used for electrical connection between semiconductor die and carrier within integrated circuit flip chip packages - Lead in linear incandescent lamps with silicate coated tubes. - Lead halide as radiant agent in High Intensity Discharge(HID)lamps used for professional reprography applications - Lead as activator in the fluorescent powder (1%lead by weight or less) of discharge lamps when used as suntanning lamps containing phosphors such as BSP(BaSi2O5:Pb)as well as used as specially lamps for diazo-printing reprography , lithography, insect traps,photochemical and curing processes containing phosphors such as SMS((Sr,Ba)2Mg2Si2O7:Pb). - Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact Energy Saving Lamps(ESL). - Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays(LCD). - Lead in printing inks for the application of enamels on borosilicate glass - Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communications systems - Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead-frames. - Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors. - Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes. - Lead oxide in the glass envelope of Black Light Blue (BLB) lamps. - Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers. - Lead bound in crystal glass as defined in Annex I (Categories 1,2,3 and 4) of Council Directive 69/493/EEC(*). (*) OJ L 326, 29.12.1969, p. 36. Directive as last amended by2003 Act of Accession.' - Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting). -Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes. - Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers. - Lead in cermet-based trimmer potentiometer elements. - Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body.	C	
				[Exceptions]		・ Substances in equipment, tools, jigs, dies etc., when there is no possibility of their becoming contained in any products		
				(Analysis method) (1) Simple analysis (screening measurement) [Method] X-ray fluorescent spectroscopy [Equipment] Energy Dispersive X-ray Fluorescence Spectrometer and wave length dispersive X-ray Fluorescence Spectrometer [Summary] After cutting and pulverizing samples, collect samples of a predetermined volume and weight and guide them into the analysis equipment; this enables analysis as to whether or not lead is contained as well as the order analysis in a simplified manner. This is suited for analysis of resin, rubber, metal, glass, ceramic members. Using semi-quantitative analysis software (fundamental parameter method) and quantitative analysis software (calibration curve method) incorporated in the equipment, measure the content. (2) Detailed analysis (quantitative analysis) [Method] ICP optical emission spectrometry [Equipment] ICP optical emission spectrometer (ICP-OES), ICP mass spectrometer (ICP-MS), atomic absorption spectrometer (AAS) [Summary] Completely dissolve and analyze samples. In the event that any residue is generated, completely dissolve by an alkali fusion method, etc. Introduce the prepared solution sample into the ICP-OES, and from the calibration curve prepared by the standard solution, measure the concentration of lead in the solution sample, and convert into the lead content in solid samples.		

No.	Classification	JGPSSI Substance Group Classification No. *1	Substance group	Threshold value *2	Date of restriction	Applications	Rank	Remarks
4	Metals and metal compounds	A10	Mercury and mercury compounds	100 ppm	Immediate	Paints, inks, plastics, package materials *3	B	
				*4	Immediate	Batteries installed to Kyocera's products and shipped to Kyocera's customer.	B	
				1000 ppm	Immediate	Applications other than those for rank B (paints, inks, plastics, package materials) and rank C	B	
				-	-	- Mercury contained in small fluorescent lamps, when volume does not exceed 5 mg per unit - Mercury contained in straight tube fluorescent light for general purposes, when volume does not exceed the following: 10 mg (halophosphate), 5 mg (triphosphate, normal life) or 8 mg (triphosphate, long life) - Mercury in straight fluorescent lamps for special purposes. - Mercury contained in other kinds of lamps not designated as exceptions to the application of the RoHS directive. -Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display until 1 July 2010.	C	
				[Exceptions]		・ Substances in equipment, tools, jigs, dies etc., when there is no possibility of their becoming contained in any products		
				(Analysis method) (1) Simple analysis (screening measurement) [Method] X-ray fluorescent spectroscopy [Equipment] Energy Dispersive X-ray Fluorescence Spectrometer and wave length dispersive X-ray Fluorescence Spectrometer [Summary] After cutting and pulverizing samples, collect samples of a predetermined volume and weight and guide them into the analysis equipment; this enables analysis as to whether or not mercury is contained as well as the order analysis in a simplified manner. This is suited for analysis of resin, rubber, metal, glass, ceramic members. Using semi-quantitative analysis software (fundamental parameter method) and quantitative analysis software (calibration curve method) incorporated in the equipment, measure the content. (2) Detailed analysis (quantitative analysis) [Method] ICP optical emission spectrometry [Equipment] ICP optical emission spectrometer combined with reduction aeration (ICP-OES), atomic absorption spectrometer combined with reduction aeration (AAS), ICP mass spectrometer (ICP-MS) [Summary] Using a decomposition flask equipped with a pressure-decomposer or reducing-cooler, prevent vaporization of mercury, decompose the sample by sulfuric acid or nitric acid, and bring the sample into solution. Measure the solubilized sample by ICP-OES. In the case of traces of mercury, measure mercury by ICP optical emission spectrometer combined with reduction aeration (ICP-OES) oratomic absorption spectrometer combined with reduction aeration (AAS) (in such event, coexisting elements may interfere and verification is required). From the calibration curve prepared by the standard solution, measure the concentration of mercury in the solution sample, and convert into the mercury content in solid samples.		
5		A17	Bis (tri-n-butyltin) oxide (TBTO)	-	Immediate	All applications	B	
6		A18	Tributyltins (TBTs) and triphenyltins (TPTs)	-	Immediate	All applications	B	
7		-	Cobalt dichloride	-	Immediate	Cobalt dichloride contained in desiccant agent and/or humidity indicator that are shipped with Kyocera's products to Kyocera's customer.	B	
				-	-	All applications other than rank B.	C	
8		-	Antimony and antimony compounds	-	-	All applications	C	
9		-	Arsenic and arsenic compounds	-	-	All applications	C	
10		-	Beryllium and beryllium compounds	-	-	All applications	C	
11		-	Bismuth and bismuth compounds	-	-	All applications	C	
12		A11	Nickel and nickel compounds *5	-	-	All applications	C	
13			Selenium and selenium compounds	-	-	All applications	C	
14		-	Thallium and thallium compounds	-	-	All applications	C	

No.	Classification	JGPSSI Substance Group Classification No. *1	Substance group	Threshold value *2	Date of restriction	Applications	Rank	Remarks
15	Halogenated organic compounds	B02	Polybrominated biphenyls (PBBs)	1000 ppm	Immediate	All applications	B	
				(Analysis method) (1) Simplified Simple analysis (screening measurement) [Method] X-ray fluorescent spectroscopy [Equipment] Energy Dispersive X-ray Fluorescence Spectrometer [Summary] Implement simple pretreatment on samples, such as cutting, pulverizing, etc., collect samples of a predetermined volume and weight and guide them into the analysis equipment; this enables analysis as to whether or not bromine is contained as well as the order analysis in a simplified manner. This is suited for analysis of resin, rubber, metal, glass, ceramic members. Using semi-quantitative analysis software (fundamental parameter method)and quantitative analysis software (calibration curve method) incorporated in the equipment, measure the content of total bromine. This method is not intended for measuring the amount of PBB or PBDE but for measuring the amount of total bromine. (2) Detailed analysis (quantitative analysis) [Method] Gas chromatography [Equipment] High-resolution gas chromatograph/high-resolution mass spectrometer (HRGC) [Summary] For the pretreatment method, freeze samples, freeze and pulverize in the light-shielded conditions, dissolve and extract by the inorganic solvent. Add 13C12 labeled internal standard to the sample solution, and analyze by a high-resolution double-focusing mass spectrometer.				
16		B03	Polybrominated diphenyl ethers (PBDEs)	1000 ppm	Immediate	All applications	B	
				(Analysis method) (1) Simple analysis (screening measurement) [Method] X-ray fluorescent spectroscopy [Equipment] Energy Dispersive X-ray Fluorescence Spectrometer [Summary] After cutting and pulverizing samples, collect samples of a predetermined volume and weight and guide them into the analysis equipment; this enables analysis as to whether or not bromine is contained as well as the order analysis in a simplified manner. This is suited for analysis of resin, rubber, metal, glass, ceramic members. Using semi-quantitative analysis software (fundamental parameter method) and quantitative analysis software (calibration curve method) incorporated in the equipment, measure the content of total bromine. This method is not intended for measuring the amount of PBB or PBDE but for measuring the amount of total bromine. (2) Detailed analysis (quantitative analysis) [Method] Gas chromatography [Equipment] High-resolution gas chromatograph/high-resolution mass spectrometer (HRGC) [Summary] For the pretreatment method, freeze samples, freeze and pulverize in the light-shielded conditions, dissolve and extract by the inorganic solvent. Add 13C12 labeled internal standard to the sample solution, and analyze by a high-resolution double-focusing mass spectrometer.				
17		B05	Polychlorinated biphenyls (PCBs)	-	Immediate	All applications	B	
18		B06	Polychlorinated naphthalenes (Cl ≥ 3)	-	Immediate	All applications	B	
19		B09	Short chain chlorinated paraffins *6	-	Immediate	All applications	B	
20		B08	Brominated flame retardants *7	-	-	All applications	C	
21		B07	Vinyl chloride polymer (PVC)	-	-	All applications	C	
22	Others	C01	Asbestos	1000 ppm	Immediate	All applications	B	Industrial Safety and Health Law *10
				(Analysis method) (1) Analysis of asbestos content in natural mineral products [Method] Analysis method of asbestos content in natural mineral products (Circular No. 0828001 (August 28, 2006) by the Director of the Chemical Hazards Control Division, Industrial Safety and Health Department, Labour Standards Bureau, Ministry of Health, Labour and Welfare) (2) Analysis of asbestos content in others [Method] Analysis method of asbestos content in building material(Circular No. 0821002 (August 21, 2006) by the Director-General of the Labour Standards Bureau, Ministry of Health, Labour and Welfare)				
23		C02	Azo dyes that generate certain specific amines *8	-	Immediate	Applications that involve the possibility of the substance directly contacting human skin or buccal cavity for long time	B	
24		C06	Radioactive substances	-	Immediate	Except for instrument-related applications	B	
				-	-	Instrument-related applications	C	
25			Phthalates *9	-	-	All applications	C	
26		-	Trichloroethylene	-	Immediate	All applications	B	
27		-	Tetrachloroethylene	-	Immediate	All applications	B	
28		-	Dichloromethane	-	Immediate	All applications other than rank C	B	
				100ppm	-	Residue in polycarbonate resin	C	
29		-	Dioxins	-	Immediate	All applications	B	

No.	Classification	JGPSSI Substance Group Classification No. *1	Substance group	Threshold value *2	Date of restriction	Applications	Rank	Remarks
30	Others	-	White phosphorus	10000ppm	Immediate	White phosphorus matches	B	Industrial Safety and Health Law *10
31		-	Benzidine and its salt	10000ppm	Immediate	All applications	B	Industrial Safety and Health Law *10
32		-	4-aminobiphenyl and its salt	10000ppm	Immediate	All applications	B	Industrial Safety and Health Law *10
33		-	4-nitrobiphenyl and its salt	10000ppm	Immediate	All applications	B	Industrial Safety and Health Law *10
34		-	Bis(chlorometyl) ether	10000ppm	Immediate	All applications	B	Industrial Safety and Health Law *10
35		-	Beta-naphthylamine and its salt	10000ppm	Immediate	All applications	B	Industrial Safety and Health Law *10
36		-	Benzene	50000ppm	Immediate	Rubber cement contains benzene (The amount of benzene is more than 5% weight of solvent in the rubber cement) (including diluted solution)	B	Industrial Safety and Health Law *10
37		-	Hexachlorobenzene	-	Immediate	All applications	B	*11
38		-	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalene (also known as Aldrin)	-	Immediate	All applications	B	*11
39		-	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethano naphthalene (also known as Dieldrin)	-	Immediate	All applications	B	*11
40		-	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethano naphthalene (also known as Endrin)	-	Immediate	All applications	B	*11
41		-	1,1,1-Trichloro-2,2-bis(4-chlorophenyl) ethane (also known as DDT)	-	Immediate	All applications	B	*11
42		-	Mixture of 1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene,1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene and their analogous compounds (also known as Chlordane or Heptachlor)	-	Immediate	All applications	B	*11
43		-	N,N'-Ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine, or N,N'-dixylyl-p-phenylenediamine	-	Immediate	All applications	B	*11
44		-	2,4,6-Tri- tert-butylphenol	-	Immediate	All applications	B	*11
45		-	Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1] heptane (also known as Toxaphene)	-	Immediate	All applications	B	*11

No.	Classification	JGPSSI Substance Group Classification No. *1	Substance group	Threshold value *2	Date of restriction	Applications	Rank	Remarks
46		-	Dodecachloropentacyclo [5.3.0.0^{2,6}.0^{3,9}.0^{4,8}] decane (also known as Mirex)	-	Immediate	All applications	B	*11
47		-	2,2,2- Trichloro-1,1- bis(4-chlorophenyl) ethanol (also known as Kelthane or Dicofol)	-	Immediate	All applications	B	*11
48		-	Hexachlorobuta-1,3-diene	-	Immediate	All applications	B	*11
49		C08	Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-	-	Immediate	All applications	B	*11
50	Others	B13	Perfluorooctane sulfonates (PFOS)	-	Immediate	Applications other than those for rank B (Threshold value) - substance,preparations; 0.005wt% - semi-finished products, articles,parts; 0,1wt% calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS - textiles or other coated materials; 1 µg/m2 of the coated material	B	*12
				-	-	- photoresists or anti reflective coatings for photolithography processes - photographic coatings applied to films, papers, or printing plates - mist suppressants for non-decorative hard chromium (VI) plating and wetting agents for use in controlled electroplating systems where the amount of PFOS released into theenvironment is minimised, by fully applying relevant best available techniques developed within the framework of Council Directive 96/61/EC of 24 September 1996 concerning integrated pollution prevention and control	C	
51		-	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	-	-	All applications	C	
52		-	Anthracene	-	-	All applications	C	
53		B16	Tris (2-chloroethyl) phosphate (TCEP)	-	-	All applications	C	
54		B10	PFC, SF6,HFC	-	-	All applications	C	
55		C07	Formaldehyhde	-	-	All applications	C	
56		B12	Perchlorate compounds	-	-	All applications	C	

Note 1: The present guidelines include the latest information of European RoHS directives as of June 2009.
Note 2: The present guidelines apply to packing materials used for products released to our customers but do not apply to packaging and packing material used for products delivered to our company (see page 3 of the guideline for packaging and packing material of delivered products.)
Note 3: This does not apply to non-radioactive reagents for measurement, analysis or research.
Note 4: This does not apply to substances enclosed hermetically in a piece of equipment, a device or a fixture at any stage during purchase, use and disposal.
Note 5: Typical materials that belong to each material classification are listed on attached table 5 in this table.

*1: This is a number assigned to each substance group by JGPSSI for classification of the substance.
*2: Intentional use of prohibited materials (rank B) is not acceptable.
However, lead intentionally used for electroless plating is acceptable if it is controlled to the threshold value of 1000 ppm.
Impurities more than the threshold value is prohibited per each part of components.
(Please refer the chart on page 5.)
*3: For packaging and packing material subject to Note 2, the total content of four heavy metals (cadmium, lead, mercury, and hexavalent chromium compounds) shall not exceed 100 ppm.
*4: Threshold of heavy metals in battery are listed the below;
Cadmium: 0.0005wt% (per total weight of battery)
Lead: 0.002wt% (per total weight of battery)
Mercury: 0.004wt% (per total weight of battery)
*5: Nickel compounds except for metal alloys (for example: stainless steel).
*6: Prohibition applies to short chain chlorinated paraffins with carbon numbers from 10 to 13.
*7: Brominated flame retardant except for PBBs and PBDEs. Indicate with ISO code 1043-4 or CAS No.
*8: Specific amines are listed in Table 3.
*9: Target applies only to the following six chemical substances:
Dibutyl phthalate, di (2-ethylhexyl) phthalate, diisononyl phthalate, diisodecyl phthalate, butyl benzyl phthalate, di-n-octyl phthalate
*10: “Toxic substances, production of which is prohibited “under Article 16 of the Industrial Safety and Health Law.
*11: “Class I specified chemical substance” prescribed in Article 1, Enforcement Ordinance of Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances
*12: Council Directive of 27 July 1976 on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations (76/769/EEC) and amended directives thereof.

[Table 3] List of Specific Amines

The term “specific amines” refers to amine compounds to which the Council Directive amending 76/769/EEC for the 19th time applies.

Substance	Chemical formula	CAS No
4-aminoazobenzene	C12H11N3	60-09-3
0-anisidine	C7H9NO	90-04-0
2-naphtylamine	C10H9N	91-59-8
3,3’-dichlorobenzidine	C12H10C12N2	91-94-1
4-aminobiphenyl	C12H11N	92-67-1
Benzidine	C12H12N2	92-87-5
o-toluidine	C7H9N	95-53-4
4-chloro-2-metyl aniline	C7H8ClN	95-69-2
2,4-toluendiamine	C7H10N2	95-80-7
o-aminoazotoluene	C14H15N3	97-56-3
5-nitro-*o*-toluidine	C7H8N2O2	99-55-8
3,3’-dichloro-4,4’-diamino diphenylmethane	C13H12Cl2N2	101-14-4
4,4’-methylenedianiline	C13H14N2	101-77-9
4,4’-diaminodiphenylether	C12H12N2O	101-80-4
p-chloroaniline	C6H6ClN	106-47-8
3,3’-dimethoxybenzidine	C14H16N2O2	119-90-4
3,3’-dimethylbenzidine	C14H16N2	119-93-7
2-methoxy-5-methyl aniline	C8H11NO	120-71-8
2,4,5-trimethylaniline	C9H13N	137-17-7
4,4’-thiodianiline	C12H12N2S	139-65-1
2,4-diaminoanisole	C7H10N2O	615-05-4
4,4’-diamino-3,3’-dimethyl-diphenylmethane	C15H18N2	838-88-0

[Table 4] List of Ozone Depleting Substances

Class	Substance Classification No.	Substance	Breakdown	Chemical Formula
Class I	C04097	CFCs (Annex A Group I substances in the Montreal Protocol)	CFC-11	$CFCl_3$
			CFC-12	CF_2Cl_2
			CFC-113	$C_2F_3Cl_3$
			CFC-114	$C_2F_4Cl_2$
			CFC-115	C_2F_5Cl
	C04098	Halons (Annex A Group II substances in the Montreal Protocol)	Halon 1211	CF_2BrCl
			Halon 1301	CF_3Br
			Halon 2402	$C_2F_4Br_2$
	C04099	Other CFCs (Annex B Group I substances in the Montreal Protocol)	CFC-13	CF_3Cl
			CFC-111	C_2FCl_5
			CFC-112	$C_2F_2Cl_4$
			CFC-211	C_3FCl_7
			CFC-212	$C_3F_2Cl_6$
			CFC-213	$C_3F_3Cl_5$
			CFC-214	$C_3F_4Cl_4$
			CFC-215	$C_3F_5Cl_3$
			CFC-216	$C_3F_6Cl_2$
			CFC-217	C_3F_7Cl
	C04100	Carbon tetrachloride (Annex B Group II substance in the Montreal Protocol)	Carbon tetrachloride	CCl_4
	C04101	1.1.1-trichloroethane (Annex B Group III substance in the Montreal Protocol)	1,1,1-trichloroethane	$C_2H_3Cl_3$
	C04102	Bromochloromethane (Annex C Group III substance in the Montreal Protocol)	Bromochloromethane	CH_2BrCl
	C04103	Methyl bromide (Annex E substance in the Montreal Protocol)	Methyl bromide	CH_3Br
	C04104	HBFCs (Annex C Group II substances in the Montreal Protocol)	Dibromofluoromethane	$CHFBr_2$
			Bromodifluoromethane	CHF_2Br
			Bromofluoromethane	CH_2FBr
			Tetrabromofluoroethane	C_2HFBr_4
			Tribromodifluoroethane	$C_2HF_2Br_3$
			Dibromotrifluoroethane	$C_2HF_3Br_2$
			Bromotetrafluoroethane	C_2HF_4Br
			Tribromofluoroethane	$C_2H_2FBr_3$
			Dibromodifluoroethane	$C_2H_2F_2Br_2$
			Bromotrifluoroethane	$C_2H_2F_3Br$
			Dibromofluoroethane	$C_2H_3FBr_2$
			Bromodifluoroethane	$C_2H_3F_2Br$
			Bromofluoroethane	C_2H_4FBr
			Hexabromofluoropropane	C_3HFBr_6
			Pentabromodifluoropropane	$C_3HF_2Br_5$
			Tetrabromotrifluoropropane	$C_3HF_3Br_4$
			Tribromotetrafluoropropane	$C_3HF_4Br_3$
			Dibromopentafluoropropane	$C_3HF_5Br_2$
			Bromohexafluoropropane	C_3HF_6Br
			Pentabromofluoropropane	$C_3H_2FBr_5$
			Tetrabromodifluoropropane	$C_3H_2F_2Br_4$
			Tribromotrifluoropropane	$C_3H_2F_3Br_3$
			Dibromotetrafluoropropane	$C_3H_2F_4Br_2$
			Bromopentafluoropropane	$C_3H_2F_5Br$
			Tetrabromofluoropropane	$C_3H_3FBr_4$
			Tribromodifluoropropane	$C_3H_3F_2Br_3$
			Dibromotrifluoropropane	$C_3H_3F_3Br_2$
			Bromotetrafluoropropane	$C_3H_3F_4Br$
			Tribromofluoropropane	$C_3H_4FBr_3$
			Dibromodifluoropropane	$C_3H_4F_2Br_2$
			Bromotrifluoropropane	$C_3H_4F_3Br$
			Dibromofluoropropane	$C_3H_5FBr_2$
			Bromodifluoropropane	$C_3H_5F_2Br$
			Bromofluoropropane	C_3H_6FBr
			Bromochloromethane	CH_2BrCl

Class	Substance Classification No.	Substance	Breakdown	Chemical Formula
Class II	C04105	HCFCs (Annex C Group I substances in the Montreal Protocol)	HCFC-21	$CHFCl_2$
			HCFC-22	CHF_2Cl
			HCFC-31	CH_2FCl
			HCFC-121	C_2HFCl_4
			HCFC-122	$C_2HF_2Cl_3$
			HCFC-123	$C_2HF_3Cl_2$
			HCFC-123*1	$CHCl_2CF_3$
			HCFC-124	C_2HF_4Cl
			HCFC-124*1	$CHFClCF_3$
			HCFC-131	$C_2H_2FCl_3$
			HCFC-132	$C_2H_2F_2Cl_2$
			HCFC-133	$C_2H_2F_3Cl$
			HCFC-141	$C_2H_3FCl_2$
			HCFC-141b*1	CH_3CFCl_2
			HCFC-142	$C_2H_3F_2Cl$
			HCFC-142b*1	CH_3CF_2Cl
			HCFC-151	C_2H_4FCl
			HCFC-221	C_3HFCl_6
			HCFC-222	$C_3HF_2Cl_5$
			HCFC-223	$C_3HF_3Cl_4$
			HCFC-224	$C_2HF_4Cl_3$
			HCFC-225	$C_3HF_5Cl_2$
			HCFC-225ca*1	$CF_3CF_2CHCl_2$
			HCFC-225cb*1	CF_2ClCF_2CHClF
			HCFC-226	C_3HF_6Cl
			HCFC-231	$C_3H_2FCl_5$
			HCFC-232	$C_3H_2F_2Cl_4$
			HCFC-233	$C_3H_2F_3Cl_3$
			HCFC-234	$C_3H_2F_4Cl_2$
			HCFC-235	$C_3H_2F_5Cl$
			HCFC-241	$C_3H_3FCl_4$
			HCFC-242	$C_3H_3F_2Cl_3$
			HCFC-243	$C_3H_3F_3Cl_2$
			HCFC-244	$C_3H_3F_4Cl$
			HCFC-251	$C_3H_4FCl_3$
			HCFC-252	$C_3H_4F_2Cl_2$
			HCFC-253	$C_3H_4F_3Cl$
			HCFC-261	$C_3H_5FCl_2$
			HCFC-262	$C_3H_5F_2Cl$
			HCFC-271	C_3H_6FCl

*1: Substances most likely to be used commercially.

[Table 5] Breakdown List of Substances

Classification	Substance Group Classification No.	Substance Group	Substance Classification No.	Substance	Chemical Formula	CAS No.
Metal compounds	A05	Cadmium and cadmium compounds	A05001	Cadmium	Cd	7440-43-9
			A05002	Cadmium oxide	CdO	1306-19-0
			A05003	Cadmium sulfide	CdS	1306-23-6
			A05004	Cadmium chloride	$CdCl_2$	10108-64-2
			A05005	Cadmium sulfate	$CdSO_4$	10124-36-4
			A05990-9	Other cadmium compounds	-	-
	A07	Hexavalent chromium compounds	A07001	Sodium dichromate	$Na_2Cr_2O_7$	10588-01-9
			A07002	Chromium (VI) oxide	CrO_3	1333-82-0
			A07003	Calcium chromate	$CaCrO_4$	13765-19-0
			A07004	Lead (II) chromate	$PbCrO_4$	7758-97-6
			A07005	Potassium dichromate	$K_2Cr_2O_7$	7778-50-9
			A07006	Potassium chromate	K_2CrO_4	7789-00-6
			A07007	Barium chromate	$BaCrO_4$	10294-40-3
			A07008	Sodium chromate	Na_2CrO_4	7775-11-3
			A07009	Strontium chromate	$SrCrO_4$	7789-06-2
			A07990-9	Other hexavalent chromium compounds	-	-
	A09	Lead and lead compounds	A09001	Lead	Pb	7439-92-1
			A09002	Lead (II) carbonate	$PbCO_3$	598-63-0
			A09003	Lead (IV) oxide	PbO_2	1309-60-0
			A09004	Lead (II, IV) oxide	Pb_3O_4	1314-41-6
			A09005	Lead (II) sulfide	PbS	1314-87-0
			A09006	Lead (II) oxide	PbO	1317-36-8
			A09007	Lead (II) carbonate basic	$_2PbCO_3.Pb(OH)_2$	1319-46-6
			A09008	Lead hydroxycarbonate	$_2PbCO_3Pb(OH)_2$	1344-36-1
			A09009	Lead (II) sulfate	$PbSO_4$	7446-14-2
			A09010	Lead (II) phosphate	$Pb_3(PO_4)_2$	7446-27-7
			A09011	Lead (II) chromate	$PbCrO_4$	7758-97-6
			A09012	Lead (II) titanate	$PbTiO_3$	12060-00-3
			A09013	Lead sulfate, sulfuric acid, lead salt	Pb_xSO_4	15739-80-7
			A09014	Lead sulfate, tribasic	$PbSO_4.H_2O$	12202-17-4
			A09015	Lead stearate	$Pb(C_{17}H_{35}COO)_2$	1072-35-1
			-	Lead stearate, dibasic	$_2PbO \cdot Pb(C17H35COO)_2$	56189-09-4
			A09017	Lead acetate	$C_4H_6O_4Pb$ / $(CH_3COO)_2Pb$	301-04-2
			A09018	Lead (II) acetate, trihydrate	$Pb(CH_3COO)_2 . 3H_2O$	6080-56-4
			A09019	Lead selenide	PbSe	12069-00-0
			-	Lead arsenate	$Pb_3(AsO_4)_2$	3687-31-8
			-	Lead Hydrogen Arsenate	AsHO4Pb	7784-40-9
			A09990-9	Other lead compounds	-	-
	A10	Mercury and mercury compounds	A10001	Mercury	Hg	7439-97-6
			A10002	Mercury (II) chloride	$HgCl_2$	7487-94-7
			A10003	Mercury (II) oxide	HgO	21908-53-2
			A10990-9	Other mercury compounds	-	-
	A17	Bis (tri-n-butyltin) oxide (TBTO)	A17001	Bis (tri-n-butyltin) oxide	$O(Sn(C_4H_9)_3)_2$	56-35-9
	A18	Tributyltins (TBTs) and triphenyltins (TPTs)	A18001	Triphenyltin *N,N''*-dimethyldithiocarbamate	$(C_6H_5)_3Sn(CH_3)_2NCS_2$	1803-12-9
			A18002	Triphenyltin fluoride	$(C_6H_5)_3SnF$	379-52-2
			A18003	Triphenyltin acetate	$(C_6H_5)_3SnOCOCH_3$	900-95-8
			A18004	Triphenyltin chloride	$(C_6H_5)_3SnCl$	639-58-7
			A18005	Triphenyltin hydroxide	$(C_6H_5)_3SnOH$	76-87-9
			A18006	Triphenyltin fatty acid salts (C = 9 to 11)	-	47672-31-1
			A18007	Triphenyltin chloroacetate	$(C_6H_5)_3SnOCOCH_2C$	7094-94-2
			A18008	Tributyltin methacrylate	$(C_4H_9)_3SnC_4H_5O_2$	2155-70-6
			A18009	Bis (tributyltin) fumarate	$C_2H_2(COO)_2((C_4H_9)_3$	6454-35-9
			A18010	Tributyltin fluoride	$(C_4H_9)_3SnF$	1983-10-4
			A18011	Bis (tributyltin) 2,3-dibromosuccinate	$((C_4H_9)_3Sn)_2C_2H_2(Br)$	31732-71-5
			A18012	Tributyltin acetate	$(C_4H_9)_3SnOCOCH_3$	56-36-0
			A18013	Tributyltin laurate	$(C_4H_9)_3SnC_{12}H_{23}O_2$	3090-36-6
			A18014	Bis (tributyltin) phthalate	$(C_6H_4)(COO)_2((C_4H_9)$	4782-29-0
			A18015	Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate (alkyl; C = 8)	-	-
			A18016	Tributyltin sulfamate	$(C_4H_9)_3SnSO_3NH_2$	6517-25-5
			A18017	Bis (tributyltin) maleate	$C_2H_2(COO)_2((C_4H_9)_3$	14275-57-1
			A18018	Tributyltin chloride	$(C_4H_9)_3SnCl$	1461-22-9

Classification	Substance Group Classification No.	Substance Group	Substance Classification No.	Substance	Chemical Formula	CAS No.
Metal compounds	A18	Tributyltins (TBTs) and triphenyltins (TPTs)	A18019	Mixture of tributyltin cyclopentane-carboxylate and its analogs (Tributyltin naphthenate)	$(C_4H_9)_3SnCO_3C_5H_9$	-
			A18020	Mixture of tributyltin 1, 2, 3, 4, 4a, 4b, 5, 6, 10, 10a-decahydro-7-isopropyl-1, 4a-dimethyl-1-phenanthlenecarboxylate and its analogs (Tributyltin rosin salt)	-	-
			A18997-9	Other tributyltins and triphenyltins	-	-
	-	Antimony and antimony compounds	-	Antimony	Sb	7440-36-0
			-	Antimony trichloride	$SbCl_3$	10025-91-9
			-	Antimony trioxide	Sb_2O_3	1309-64-4
			-	Antimony pentoxide	SB_2O_5	1314-60-9
			-	Sodium antimonite	Na_3O_4Sb	15432-85-6
			-	Other antimony compounds	-	-
	A20 A21	Arsenic and arsenic compounds	-	Arsenic	As	7440-38-2
			-	Gallium arsenide	GaAs	1303-00-0
			A02003	Arsenic pentoxide	As_2O_5	1303-28-2
			A02004	Arsenic trioxide	As_2O_3	1327-53-3
			-	Calcium arsenate	$Ca_3(AsO_4)_2$	7778-44-1
			-	Calcium arsenite	$Ca_3(AsO_3)_2$	27152-57-4
			-	Potassium arsenite	$KAsO_2.HAsO_2$	10124-50-2
			-	Potassium arsenate	KH_2AsO_4	7784-41-0
			-	Lead arsenate	$Pb_3(AsO_4)_2$	3687-31-8
			-	Lead Hydrogen Arsenate	AsHO4Pb	7784-40-9
			-	Other arsenic compounds	-	-
	C19	Beryllium and beryllium compounds	-	Beryllium	Be	7440-41-7
			A03002	Beryllium oxide	BeO	1304-56-9
			-	Beryllium-aluminum alloy	Unspecified	12770-50-2
			-	Beryllium chloride	$BeCl_2$	7787-47-5
			-	Beryllium fluoride	BeF_2	7787-49-7
			-	Beryllium hydroxide	$Be(OH)_2$	13327-32-7
			-	Beryllium phosphate	$Be_3(PO_4)_2$	13598-15-7
			-	Beryllium sulfate	$BeSO_4$	13510-49-1
			-	Beryllium sulfate tetrahydrate	$BeSO_4 \cdot 4H_2O$	7787-56-6
			-	Beryl ore	$Be_3Al_2Si_6O_{18}$	1302-52-9
			-	Other beryllium compounds	-	-
	-	Bismuth and bismuth compounds	-	Bismuth	Bi	7440-69-9
			-	Bismuth trioxide	Bi_4O_6	1304-76-3
			-	Bismuth nitrate	BiN_3O_9	10361-44-1
			-	Other bismuth compounds	-	-
	A11	Nickel and nickel compounds *2	-	Nickel (II) oxide	NiO	1313-99-1
			-	Nickel (II) carbonate	$NiCO_3$	3333-67-3
			-	Nickel (II) sulfate	$NiSO_4$	7786-81-4
			A11004	Nickel	Ni	7440-02-0
			-	Other nickel compounds	-	-
		Selenium and selenium compounds	-	Selenium	Se	7782-49-2
			-	Selenous acid	H_2SeO_3	7783-00-8
			-	Hydrogen selenide	H_2Se	7783-07-5
			-	Sodium selenide	Na_2Se	1313-85-5
			-	Selenium oxide	SeO	12640-89-0
			-	Sodium selenate	Na_2SeO_4	10112-94-4
			-	Dimethyl selenide	$(CH_3)_2Se$	593-79-3
			-	Selenium dioxide	SeO_2	7446-08-4
			-	Other selenium compounds	-	-
	-	Thallium and thallium compounds	-	Thallium	Tl	7440-28-0
			-	Thallium nitrate	$TlNO_3$	10102-45-1
			-	Thallium acetate	$TlCH_3COO$	563-68-8
			-	Thallium carbonate	Tl_2CO_3	6533-73-9
			-	Thallium sulfate	Tl_2SO_4	7446-18-6
Halogenated organic compounds	B02	Polybrominated biphenyls (PBBs)	B02001	Polybrominated biphenyls	$C_{12}H_XBr_{(10-X)}$	-
			B02990-9	Other polybrominated biphenyls	-	-
	B03	Polybrominated diphenyl ethers (PBDEs)	B03001	Polybrominated diphenyl ethers	$C_{12}H_XBr_{(10-X)}O$	-
			-	Other polybrominated diphenyl ethers	-	-
	B05 B15	Polychlorinated biphenyls (PCBs)	B05001	Polychlorinated biphenyls	Unspecified	1336-36-3
			B05002	Polychlorinated terphenyls	Unspecified	61788-33-8
			-	Other PCBs	-	-
	B06	Polychlorinated naphthalenes (Cl ≥ 3)	B06001	Polychlorinated naphthalenes (Cl ≥ 3)	Unspecified	70776-03-3
			B06997-9	Other polychlorinated naphthalenes (Cl ≥ 3)	-	-
	B09	Short chain chlorinated paraffins	B09001	Chlorinated paraffins (C10 Other short chain chlorinated paraffins to 13)	Unspecified	85535-84-8
			-	Other short chain chlorinated paraffins	-	-
	B08	Brominated flame retardants *3	B08001	Brominated flame retardant that falls under the notation of ISO 1043-4 code number FR (14) [Aliphatic/alicyclic brominated compounds]	-	-
			B08002	Brominated flame retardant that falls under the notation of ISO 1043-4 code number FR (15) [Aliphatic/alicyclic brominated compounds in combination with antimony compounds]	-	-
			B08003	Brominated flame retardant that falls under the notation of ISO 1043-4 code number FR (16) [Aromatic brominated compounds (excluding brominated diphenyl ether and biphenyls)	-	-
			B08004	Brominated flame retardant that falls under the notation of ISO 1043-4 code number FR (17) [Aromatic brominated compounds (excluding brominated diphenyl ether and biphenyls) in combination with antimony compounds]	-	-
			B08005	Brominated flame retardant that falls under the notation of ISO 1043-4 code number FR (22) [Aliphatic/alicyclic chlorinated and brominated compounds]	-	-

Classifi-cation	Substance Group Classification No.	Substance Group	Substance Classification No.	Substance	Chemical Formula	CAS No.
Halogenated organic compounds		Brominated flame retardants *3	B08006	Brominated flame retardant that falls under the notation of ISO 1043-4 code number FR (42) [Brominated organic phosphorous compounds]	-	-
			B08007	Poly (2,6-dibromo-phenylene oxide)	$(C_6H_2Br_2O)_X$	69882-11-7
			B08008	Tetradecabromo- diphenoxybenzene	$C_{18}Br_{14}O_2$	58965-66-5
			B08009	1,2-bis (2,4,6-tribromo-phenoxy) ethane	$C_{14}H_8Br_6O_2$	37853-59-1
			B08010	3,5,3',5'-tetrabromo-bisphenol A (TBBA)	$C_{15}H_{12}Br_4O_2$	79-94-7
			B08011	TBBA, unspecified	-	30496-13-0
			B08012	TBBA-epichlorohydrin oligomer	$(C_{15}H_{12}Br_4O_2.C_3H_5ClO)_X$	40039-93-8
			B08013	TBBA-diglycidyl-ether oligomer	-	70682-74-5
			B08014	TBBA carbonate oligomer	$(C_{15}H_{12}Br_4O_2.CCl_2O)_X$	28906-13-0
			B08015	TBBA carbonate oligomer, phenoxy end capped	$(C_7H_5O_2)(C_{16}H_{10}Br_4O_3)$	94334-64-2
			B08016	TBBA carbonate oligomer, 2,4,6-tribromophenol terminated	$(C_7H_2Br_3O_3)(C_{16}H_{10}Br_4)$	71342-77-3
			B08017	TBBA-bisphenol A-phosgene polymer	$(C_{15}H_{16}O_2.C_{15}H_{12}Br_4O_2)$	32844-27-2
			B08018	Brominated epoxy resin end-capped with tribromophenol	-	139638-58-7
			B08019	Brominated epoxy resin end-capped with tribromophenol	-	135229-48-0
			B08020	TBBA-(2,3-dibromo-propyl-ether)	$C_{21}H_{20}Br_8O_2$	21850-44-2
			B08021	TBBA bis-(2-hydroxy-ethyl-ether)	$C_{19}H_{20}Br_4O_4$	4162-45-2
			B08022	TBBA-bis-(allyl-ether)	$C_{21}H_{20}Br_4O_2$	25327-89-3
			B08023	TBBA-dimethyl-ether	$C_{17}H_{16}Br_4O_2$	37853-61-5
			B08024	Tetrabromo-bisphenol S	$C_{12}H_6Br_4O_4S$	39635-79-5
			B08025	TBBS-bis-(2,3-dibromo-propyl-ether)	$C_{18}H_{14}Br_8O_4S$	42757-55-1
			B08026	2,4-dibromo-phenol	$C_6H_4Br_2O$	615-58-7
			B08027	2,4,6-tribromo-phenol	$C_6H_3Br_3O$	118-79-6
			B08028	Pentabromo-phenol	C_6HBr_5O	608-71-9
			B08029	2,4,6-tribromo-phenyl-allyl-ether	$C_9H_7Br_3O$	3278-89-5
			B08030	Tribromo-phenyl-allyl-ether, unspecified	$C_9H_7Br_3O$	26762-91-4
			B08031	Hexabromo-cyclo-dodecane (HBCD), unspecified	$C_{12}H_{18}Br_6$	3194-55-6
			B11001	Alpha-hexabromocyclododecane	$C_{12}H_{18}Br_6$	134237-50-6
			B11002	Beta-hexabromocyclododecane	$C_{12}H_{18}Br_6$	134237-51-7
			B11003	Gamma-hexabromocyclododecane	$C_{12}H_{18}Br_6$	134237-52-8
			B08032	Tetrabromo-cyclo-octane	$C_8H_{12}Br_4$	31454-48-5
			B08033	1,2-dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	$C_8H_{12}Br_4$	3322-93-8
			B08034	-	$C_8Br_4O_4Na_2$	25357-79-3
			B08035	TBPA Na salt	$C_8Br_4O_3$	632-79-1
			B08036	Tetrabromophthalic anhydride	$C_{10}H_6Br_4O_4$	55481-60-2
			B08037	Bis (methyl) tetrabromophthalate (C=6~23)	$C_{24}H_{34}Br_4O_4$	26040-51-7
			B08038	2-hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	$C_{15}H_{16}Br_4O_7$	20566-35-2
			B08039	TBPA, glycol-and propylene-oxide esters	-	75790-69-1
			B08040	N,N'-Ethylene –bis-(tetrabromophthalimide)	$C_{18}H_4Br_8N_2O_4$	32588-76-4
			B08041	Ethylene-bis(5,6-dibromonorbornane-2,3-dicarboximide)	$C_{20}H_{20}Br_4N_2O_4$	52907-07-0
			B08042	2,3-dibromo-2-butene-1,4-diol	$C_4H_6Br_2O_2$	3234-02-4
			B08043	Dibromo-neopentyl-glycol	$C_5H_{10}Br_2O_2$	3296-90-0
			B08044	Dibromo-propanol	$C_3H_6Br_2O$	96-13-9
			B08045	Tribromo-neopentyl-alcohol	$C_5H_9Br_3O$	36483-57-5
			B08046	Poly tribromo-styrene	-	57137-10-7
			B08047	Tribromo-styrene	$C_8H_5Br_3$	61366-34-1
			B08048	Dibromo-styrene grafted PP	-	171091-06-8
			B08049	Poly-dibromo-styrene	$C_8H_6Br_2$	31780-26-4
			B08050	Bromo-/Chloro-paraffins	-	68955-41-9
			B08051	Bromo-/Chloro-alpha-olefin	-	82600-56-4
			B08052	Vinyl bromide	C_2H_3Br	593-60-2
			B08053	Tris-(2,3-dibromo-propyl)-isocyanurate	$C_{12}H_{15}Br_5N_3O_3$	52434-90-9
			B08054	Tris-(2,4-dibromo-phenyl)-phosphate	$C_{18}H_9Br_5O_4P$	49690-63-3
			B08055	Tris (tribromo-neopentyl)-phosphate	$C_{15}H_{24}Br_9O_4P$	19186-97-1
			B08056	Chlorinated and brominated phosphate esther	-	125997-20-8
			B08057	Pentabromo-toluene	$C_7H_3Br_5$	87-83-2
			B08058	Pentabromo-benzyl bromide	$C_7H_2Br_6$	38521-51-6
			B08059	1,3-Butadiene homopolymer,brominated	-	68441-46-3

Classification	Substance Group Classification No.	Substance Group	Substance Classification No.	Substance	Chemical Formula	CAS No.
Halogenated organic compounds		Brominated flame retardants *3	B08060	Pentabromo-benzyl-acrylate, monomer	$C_{10}H_5Br_5O_2$	59447-55-1
			B08061	Pentabromo-benzyl-acrylate, polymer	$(C_{10}H_5Br_5O_2)_X$	59447-57-3
			B08062	Decabromo-diphenyl-ethane	$C_{14}H_4Br_{10}O_2$	84852-53-9
			B08063	Tribromo-bisphenyl-maleinimide	$C_{10}H_4Br_3NO_2$	59789-51-4
			B08064	Brominated trimethylphenyl-lindane	$C_{18}H_{12}Br_n$	-
			B08997-9	Other brominated flame retardant compounds	-	-
	B07	Vinyl chloride polymer (PVC)	B07001	Vinyl chloride polymer (PVC)	$(CH_2CHCl)_n$	9002-86-2
Others	C01	Asbestos	C01001	Actinolite	Unspecified	77536-66-4
			C01002	Amosite	Unspecified	12172-73-5
			C01003	Anthophyllite	Unspecified	77536-67-5
			C01004	Chrysotile	Unspecified	12001-29-5
			C01005	Crocidolite	Unspecified	12001-28-4
			C01006	Tremolite	Unspecified	77536-68-6
			C01007	Asbestos	Unspecified	1332-21-4
			-	Other asbestos	-	-
	C02	Azo dyes *1	-	Azo dyes that generate specific amines	-	-
	C04	Ozone depleting substances *1 (Isomers included)	C04097	CFCs (Annex A Group I substances in the Montreal Protocol)	-	-
			C04098	Halons (Annex A Group II substances in the Montreal Protocol)	-	-
			C04099	Other CFCs (Annex B Group I substances in the Montreal Protocol)	-	-
			C04100	Carbon tetrachloride (Annex B Group II substance in the Montreal Protocol)	-	-
			C04101	1.1.1-trichloroethane (Annex B Group III substance in the Montreal Protocol)	-	-
			C04102	Bromochloromethane (Annex C Group III substance in the Montreal Protocol)	-	-
			C04103	Methyl bromide (Annex E substance in the Montreal Protocol)	-	-
			C04104	HBFCs (Annex C Group II substances in the Montreal Protocol)	-	-
			C04105	HCFCs (Annex C Group I substances in the Montreal Protocol)	-	-
	C06	Radioactive substances	C06001	Uranium	U	-
			-	Plutonium	Pu	-
			C06003	Radon	Rn	-
			C06004	Americium	Am	-
			C06005	Thorium	Th	-
			C06006	Cesium	Cs	7440-46-2
			C06007	Strontium	Sr	7440-24-6
			C06997-9	Other radioactive substances	-	-
	C09 C10	Phthalates	C05001	Dibutylphthalate	$C_{18}H_{22}O_4$	84-74-2
			C05002	Di(2-ethylhexyl)phthalate	$C_{24}H_{38}O_4$	117-81-7
			C05007	Diisononyl phthalate	$C_{24}H_{38}O_4$	28553-12-0
			C05008	1,2-benzenedicarboxylic acid diisodecyl ester	$C_{28}H_{46}O_4$	26761-40-0
			C05009	Butyl benzyl phthalate	$C_{19}H_{20}O_4$	85-68-7
			C05010	di-n-octyl phthalate	$C_6H_4(COO(CH_2)_7CH_3)_2$	117-84-0
	-	Trichloroethylene	-	Trichloroethylene	C_2HCl_3	79-01-6
	-	Tetrachloroethylene	-	Tetrachloroethylene	C_2Cl_4	127-18-4
	-	Dichloromethane	-	Dichloromethane	CH_2Cl_2	75-09-2
	-	White phosphorus	-	White phosphorus	P	7723-14-0
	-	Benzidine and its salt	-	Benzidine	$C_{12}H_{12}N_2$	92-87-5
	-	4-aminobiphenyl and its salt	-	4-aminobiphenyl	$C_{12}H_{11}N$	92-67-1
	-	4-nitrobiphenyl and its salt	-	4-nitrobiphenyl	$C_{12}H_9NO_2$	92-93-3
	-	Bis(chlorometyl) ether	-	Bis(chlorometyl)ether	$C_2H_4Cl_2O$	542-88-1
	-	Beta-naphthylamine	-	Beta-naphthylamine	$C_{10}H_7NH_2$	91-59-8
	-	Benzene	-	Benzene	C_6H_6	71-43-2
	B12	Perchlorate compounds	B12001	Lithium perchlorate	$LiClO_4$	7791-03-9
			B12997-9	Other perchlorate compounds	-	-
	B16	Tris (2-chloroethyl) phosphate (TCEP)	B15001	Tris (2-chloroethyl) phosphate (TCEP)	$C_6H_{12}Cl_3O_4P$ / $(ClCH_2CH_2O)_3PO$	115-96-8
	B10	PFC, SF6,HFC	B10001	Carbon tetrafluoride(Perfluoromethane)	CF_4	75-73-0
			B10002	Perfluoroethane (Hexafluoroethane)	C_2F_6	76-16-4
			B10003	Perfluoropropane(Octafluoroproane)	C_3F_8	76-19-7
			B10004	Perfluorobutane (Decafluorobutane)	C_4F_{10}	355-25-9
			B10005	Perfluoropentane(Dodecafluoropentane)	C_5F_{12}	678-26-2
			B10006	Perfluorohexane(Tetradecafluorohexane)	C_6F_{14}	355-42-0
			B10007	Perfluorocyclobutane	$c\text{-}C_4F_8$	115-25-3
			B10008	Sulfur Hexafluoride (SF6)	SF_6	2551-62-4
			B10009	Trifluoromethane - (HFC-23)	CHF_3	75-46-7
			B10010	Difluoromethane - (HFC-32)	CH_2F_2	75-10-5
			B10011	Methyl fluoride – (HFC-41)	CH_3F	593-53-3
			B10012	2H,3H-Decafluoropentane – (HFC-43-10mee)	$CF_3CHFCHFCF_2CF_3$	138495-42-8
			B10013	Pentafluoroethane (HFC-125)	C_2HF_5	354-33-6
			B10014	1,1,2,2-Tetrafluoroethane – (HFC-134)	CHF_2CHF_2	359-35-3
			B10015	1,1,1,2-Tetrafluoroethane – (HFC-134a)	CH_2FCF_3	811-97-2
			B10016	1,1-Difluoroethane – (HFC-152a)	CH_3CHF_2	75-37-6
			B10017	1,1,2-Trifluoroethane–(HFC-143)	CH_2FCHF_2	430-66-0
			B10018	1,1,1-Trifluoroethane – (HFC-143a)	CH_3CF_3	420-46-2
			B10019	2H-Heptafluoropropane– (HFC-227ea)	CF_3CHFCF_3	431-89-0
			B10020	1,1,1,2,2,3-hexafluoro-propane (HFC-236cb)	$CH_2FCF_2CF_3$	677-56-5
			B10021	1,1,1,2,3,3-Hexafluoropropane –(HFC-236ea)	CHF_2CHFCF_3	431-63-0
			B10022	HFC-1,1,1,3,3,3-Hexafluoropropane –(HFC-236fa)	$CF_3CH_2CF_3$	690-39-1
			B10023	1,1,2,2,3-Pentafluoropropane –(HFC-245ca)	$CH_2FCF_2CHF_2$	679-86-7
			B10024	1,1,1,3,3-Pentafluoropropane –(HFC-245fa)	$CHF_2CH_2CF_3$	460-73-1
			B10025	1,1,1,3,3-Pentafluorobutane – (HFC-365mfc)	$CF_3CH_2CF_2CH_3$	406-58-6
	C07	Formaldehyhde	C07001	Formaldehyhde	H_2CO	50-00-0

*1: Nickel compounds except for metal alloys (for example: stainless steel)
*2: Brominated flame retardants except for PBBs and PBDEs.
Indicate with ISO code 1043-4 or CAS No.
*3: The breakdowns of specific amines and ozone depleting substances are shown in Tables 3 and 4 respectively.
Although Class II substances are not prohibited, they are included in the scope of investigation.

[Revision History]

Revision	Date	Contents
1	December 10. 1998	Original was issued
2	July 1st, 2004	Completely revised
3	July 1st, 2005	page 1 Explanation "This is the guideline…" was added page 2 Preface partially was revised page 6 "Since neither an alternative…" was added on (4) Controlled Chemical Substances (Rand C) page 13 - 16 [Table 2] list was revised. ・Changed chemicals (gold, silver, copper, palladium and magnesium deleted) ・Threshold value were added (RoHS directive materials) ・Applications were corrected based on the latest RoHS directive ・Remarks were revised (Enactment form) Form 1 Some questions are separated for manufacturing company and non-manufacturing company Form 2 Definition of "Not contain" was changed Form 3 Example were added
4	September 19th, 2006	page 2 Preface partially was revised page 13 - 18 [Table 2] list was revised. ・Applications were corrected based on the latest information of RoHS directive ・Materials and the threshold values were added according to the revised Industrial Safety and Health Law. ・Remarks were revised
5	September 1st, 2008	Page 2 Preface partially was revised. Page 5-6 In “Definitions,” minerals, substances, preparation and article were added. Page 6 “We will give preferential treatment to partners implementing systems for properly controlling chemical substances contained in materials delivered to our company.“ added. Based on this, to “Environmental Protection Activity Survey,” survey on “Product Environmental Quality Control” added to “Corporate Constitution” which has been surveyed conventionally. Page 7-9 A table of submitted documents were added and brief explanation of submitted documents partly were revised. Page 11-16 Attached table 2 “List of Prohibited/Controlled Chemical Substances” changed. ・Applications partly were added in accordance with latest information of RoHS directives ・Addition of analysis method ・Class 1 specified chemical substance of Chemical Substances Control Law were added ・Perfluorooctanesulfonic acid (PFOS) and its salts were added.

Revision	Date	Contents
5	September 1st, 2008	[Established form] Form 1 1-1 Corporate Constitution and 1-2 Product Environmental Quality Control were established Form 3 3-1 for chemical substances and preparations and 3-2 for article were established Form 4 Review of the title of the form subject to guarantee
6	October 1st, 2009	Page 1, 6 Revising the words of "Constitution of Enterprise" to Environmental Management System Page 7-8 JAMP MSDSplus and AIS were added in a table of submitted documents. Brief explanation of submitted documents partly was revised. Page 11-16 - [Table 2] List of Prohibited/Controlled Chemical Substances was changed. - Thresholds of Cd, Pb, Hg in battery were added. - Applications partly were added in accordance with latest information of RoHS directive. - Cobalt dichloride was added. - C rank application of Dichloromethane was added. - 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) was added - Anthracene was added. - Tris (2-chloroethyl) phosphate was added. - PFC, SF6 and HFC were added. - Formaldehyhde was added. - Perchlorate compounds were added. [Established form] Form 1-1 - The name of form was revised. Form 1-2 - The name of form was revised. Form 2 - The name of form was revised. - Words of certificate were reviewed. - Table of target products was added. Form 3-1 - The name of form was revised. - Inputting items were added - Notes were reviewed. Form 3-2 - The name of form was revised. - Inputting items were added - Notes were reviewed. Form 4 - The name of form was revised. Form 5 - The name of form was revised.

[Contact] Kyocera Corporation
Corporate Environment Group, Environmental Management Division: Tel. 075-604-3570
Corporate Purchasing Group, Procurement Division: Tel. 075-604-3479

([General] Form 1-1)

Survey sheet for Environmental Protection Activities [Environmental management system]

To our business partners

KYOCERA Corporation

1. Basic information

Date	
Kyocera's Business Partner Code	
Company's name	
Division (Office, Plant)	
Department	
Person in charge	
Phone No.	
Fax	
e-mail	
Category of business	
Transaction ratio with Kyocera at your company	

[The way of inputting survey sheet]
1. Basic information
Input basic information such as company's name, Division (Office, Plant), person who input this sheet, etc.

2. Conditions of environmental management activities
Input environmental management activity conditions of your division (office) and your plant in the "action condition" column and "evidence" column.
[Action condition] column
For each question, input "OK," "NG," or "NA (not applicable)" with respect to "rules" and "operation" on the basis of the following judgment criteria:
[OK] ... There are rules (systems) for the content shown by questions and operation (activity) is implemented.
[NG] ... There is no rule (system) for the content shown by questions and no operation (activity) is implemented or there is deficiency in part of the rules and operation.
[NA] ... No subject to management for the content.
[Evidence] column
Enter facts and document names that indicate the performance of "rules" and "operation" for each question.
If there is any deficiency in "rules" or "operation," enter the details.

2. Environmental management activity conditions

Action items	Action contents	Questions		Filled out by your company: Performance (OK/NG/NA) Rules	Filled out by your company: Performance (OK/NG/NA) Operation	Filled out by your company: Evidence (facts, document names, etc.) [Enter practical aspects and areas of deficiency]	Filled by our company: Individual evaluation (A/B/C) Rules	Filled by our company: Individual evaluation (A/B/C) Operation	Remarks
1 Environment management system	A An environmental management system certified by a third party has been built.	a	Have you built an environmental management system for which third-party organization?			Standard of registration : Organization of registration : Date of registration :			
	=> If your answer to Question A is "OK", please skip over 1-B and answer Item 2 "Compliance with law" next. If "NG", please answer to Question B.								
	B If your system is not certified by a third party, does the system have the following features?								
	Documented environmental policies exist.	a	Do you have an environmental policy?			Name of the document that establishes to prepare policies: Name of the person who created prepared (approved) the policy:			
		b	Is your environmental policy approved by the management?			Name of the document that establishes "approval": Position of the "executive management":			
		c	Is the environmental policy got across and communicated to the parties concerned?			Name of the document that establishes "communication": Method of communication:			

Action items	Action contents		Questions		Filled out by your company			Filled by our company		Remarks
					Performance (OK/NG/NA)		Evidence (facts, document names, etc.)	Individual evaluation (A/B/C)		
					Rules	Operation	[Enter practical aspects and areas of deficiency]	Rules	Operation	
		d	Is the environmental policy periodically reviewed?				Name of the document that establishes "review": Date of most recent review (revision):			
	There is the management in charge of environmental affairs.	a	Does any management take charge of the environment?				Name of the management in charge:			
	There is a section in charge of environmental management, as well as a committee for environmental affairs.	a	Do you have any appointed environmental management representative?				Name of the document that stipulates establishes rules: Name of the Environmental Management Representative:			
		b	Do you have any appointed department that takes charge of environment-related services?				Name of the document that establishes rules: Name of the organization of the function department in charge:			
		c	Do you have any appointed environment-related committee organization?				Name of the documents that establishes rules: Name of the committee:			
	There is a system for compliance with environmental regulations, customer requirements, and others concerning environment. The system permits the identification of relevant regulations.	a	Do you understand applicable laws and regulations, customer requirements, and others concerning environment?				Name of the documents that establishes rules:			
		b	Are applicable requirements, etc. documented and current versions constantly available and accessible to any requiring functions?				Name of the document that establishes documentation, etc.: Method of disclosure:			
		c	Is any update (change, addition, deletion) to requirements, etc. notified to necessary functions?				Name of the document that establishes notification: Method of notification:			
	The activities that may exert environmental impact in business are grasped and evaluated, and these are identified.	a	Do you understand and evaluate activities, products, or services (environmental aspects) that may exert environmental impact?				Name of the document that establishes evaluation: Time when evaluation is to be made:			
		b	As a result of assessment, do you identify business activities that would exert significant impacts?				Details of the specified environmental aspects :			
	Environmental goals have been set, and activities for betterment are being carried out to achieve them.	a.	Do you establish to set targets and plans concerning environment?				Name of the document that establishes rules: Date when the target and the plan were prepared:			
		b.	Do you establish to continuously carry out follow-up of a plan?				Name of the document that establishes rules: Time when most recent progress control carried out:			
		c.	Do you establish to review targets and plans in accordance with changes, etc. of progress conditions and requirements?				Name of that establishes rules: Date of most recent review:			
	The voluntary control criteria concerning the atmosphere, water etc. for the purpose of complying with regulatory targets has been determined.	a	Do you establish any voluntary control criteria, etc. (control criteria established by yourself in order to observe legal regulation values, etc.) concerning the atmosphere, water quality, soil, noise, vibration, and others?				Name of the document that establishes rules: Items that voluntary standard:			
		b	Do you establish frequency of monitoring and measurement (analysis)?				Name of the document that establishes rules: Monitoring and measurement frequency:			

Action items	Action contents	Questions			Filled out by your company			Filled by our company		Remarks
					Performance (OK/NG/NA)		Evidence (facts, document names, etc.)	Individual evaluation (A/B/C)		
					Rules	Operation	[Enter practical aspects and areas of deficiency]	Rules	Operation	
	Energy saving activities are implemented.	a	Do you set targets and plans for energy saving?				Details of the plan:			
		b	Do you understand progress (achievement) condition for the target and plan?				Condition of progress and achievement:			
		c	Do you take any actions if any delay or problem occurs in targets and plans?				Details of the action:			
	Prevention of global warming activities are implemented.	a	Do you set any targets and plans for prevention of global warming?				Details of the plan:			
		b	Do you understand progress (achievement) condition for your targets and plans?				Details of progress and achievement:			
		c	Do you take any actions if any delay or problem occurs in targets and plans?				Details of the action:			
	Resources saving activities are implemented. (Reduction of vehicle fuel consumption and water consumption etc.	a	Do you set any targets and plans for resources saving activities?				Details of plan			
		b	Do you understand progress (achievement) condition for your targets and plans?				Details of progress and achievement:			
		c	Do you take any actions if any delay or problem occurs in targets and plans?				Details of the action:			
	Waste reduction activities are implemented.	a	Do you set any targets and plans for waste reduction activities?				Details of plan			
		b	Do you get understand progress (achievement) condition for your targets and plans?				Details of progress and achievement:			
		c	Do you take any actions if any delay or problem occurs in targets and plans?				Details of the action:			
	Packaging material reduction activities are implemented.	a	Do you set any targets and plans for packaging material reduction activities?				Details of plan			
		b	Do you understand progress (achievement) condition for your targets and plans?				Details of progress and achievement:			
		c	Do you take any actions if any delay or problem occurs in targets and plans?				Details of the action:			
	Training and enlightenment activities about environmental are periodically implemented to employee.	a	Do you identify the necessary training for services that would exert impacts on the environment?				Name of the document that establishes training: Name of training established (Ex.):			
		b	Is it established to provide necessary training for employees who engage in services that may exert impacts on the environment?				Name of the document that establishes training: Time when most recent training was implemented:			
		c	Do you identify foreseeable emergencies or accidental incidents and establish procedures to take an appropriate response?				Name of the document that establishes identification of emergencies, etc. Emergencies identified, etc.			
		d	Do you periodically test the efficacy of responding procedures and review them where required?				Name of the document that stipulates identification of emergencies, etc. Time of most recent test:			

Action items	Action contents		Questions		Filled out by your company			Filled by our company		Remarks
					Performance (OK/NG/NA)		Evidence (facts, document names, etc.)	Individual evaluation (A/B/C)		
					Rules	Operation	[Enter practical aspects and areas of deficiency]	Rules	Operation	
			e	Do you prescribe to control and retain training implementing records?			Name of the document that establishes retention of records: Retention period of training records:			
		Environmental internal audit is implemented.	a	Is the system of internal audit established for evaluating environmental management activities are properly implemented and maintained?			Name of the document that establishes implementation of internal audits: Time of most recent implementation:			
			b	Do internal auditors have knowledge on environmental management and have they developed auditing skills and the like?			Name of the document that establishes conditions of internal auditors:			
			c	Do you have a system to give proposals for improvement and implement the follow-up with problems extracted by internal audits?			Name of the document that establishes proposals for improvement and follow-up:			
			d	Are problems extracted by internal audits and the improvement results reported to management?			Name of the document that establishes reporting to the management: Date of most recent report:			
		Environmental management system is periodically reviewed by director.	a	Do you have a system in which management is able to obtain sufficient information to understand the environmental management conditions?			Name of the document that establishes rules:			
			b	Do management improve problems pointed out by the results of internal audits and nonconformity occurring conditions by methods such as reflecting them to targets of the next term?			Name of the documents that establishes rules:			
2 Compliance with law	Laws and regulations are complied.		a	Are the report of specific facilities, management representatives and others implemented to comply with laws			Name of supporting documents and plant :			
			b	Are you able to abide by legal regulations of soot?			Name of supporting documents and plant:			
			c	Are you able to abide by legal regulations of wastewater?			Name of supporting documents and plant :			
			d	Are you able to abide by legal regulations of noise?			Name of supporting documents and plant:			
			e	Are you able to abide by legal regulations of vibration?			Name of supporting documents and plant:			
			f	Do you treat wastes in conformity to laws and regulations?			Name of supporting documents and plant:			
			g	Are wastes classified and controlled as established in the standard?			Name of supporting documents and plant:			
			h	Are hazardous substances and chemical substances properly stored and controlled?			Name of supporting documents and plant:			
3 Green procurement/ purchasing	The system for a green procurement and purchasing has been established and promoted.		a	Do you have a green procurement and purchasing system and promote the activities? <<Examples of green purchasing activities>> (1) To purchase eco-friendly office supplies. (2) To purchase energy-saving type utilities equipment. (3) To purchase low-emission cars and fuel-efficient cars. <<Examples of green procurement activities>> (1) To purchase prohibited substances and control target substances are prescribed by yourselves and encourage purchasing articles free of harmful substances. (2) To collect the information (MSDS, analysis data, etc.) on ingredients contained from suppliers for purchased parts and materials and analyze by yourselves to confirm containing harmful substances.			Name of the document that establishes green procurement and purchase: Details of activities:			

Action items	Action contents		Questions	Filled out by your company			Filled by our company		Remarks
				Performance (OK/NG/NA)		Evidence (facts, document names, etc.)	Individual evaluation (A/B/C)		
				Rules	Operation	[Enter practical aspects and areas of deficiency]	Rules	Operation	
4 Disclosure of environmental information	Environmental information is positively disclosed to the outside of company.	a	Do you positively disclose environmental information to the outside of your company? <<Disclosure examples of information>> (1) To disclose environmental activities in environmental reports, Web sites, etc. (2) To insert environmental activities in corporate brochures. (3) To introduce and explain your company's environmental activities at external meetings, etc.			Method of disclosure:			
5 Management for chemicals contained in product	Control system for chemical substances in products is established. (It is necessary only for manufacturer.)	a	Is there the system established to control non-contain of prohibited chemical substances in your products, which are issued by Kyocera *(rank A and rank B prohibited substances listed in [Attached Table 1] and [Attached Table 2] of Guidelines)?			To check with audit card of product environment quality management.			
6 Product assessment	Environmental assessment for products is implemented. (It is necessary only for manufacturer.)	a	Do you implement environmental assessment for reduction of environmental impacts of products from the product development stages? <<Implementation examples of product assessment>> (1) Environmental impacts is evaluated by the use of checklist, in the product development stages. (2) Environmental burden in a product life cycle is evaluated and improvement countermeasure are taken for life cycles stages with high burden.			Name of the document that establishes environmental assessment on products: Details of environmental assessment:			

([General] Form 1-2)

Survey sheet for Environmental Protection Activities [Product Environmental Quality Management System]

To our business partners

KYOCERA Corporation

1. Basic information

Date	
Kyocera's business partner code	
Company's name	
Division (Office, Plant)	
Department	
Person in charge	
Phone No.	
Fax	
e-mail	
Category of business	
Transaction ratio with Kyocera at your company	
Certificates acquisition condition of quality management system	
Acquisition condition of certificate systems of chemical substance management of other companies	
Product group (product group subject to identification) delivered to our company	
Your company business organization involved in the above mentioned product group	

2. Management framework (business form of your company)

	Control classification of answer	"Tick" applicable classification.
I	Purchase of substances and preparation	☐
II	Manufacture of substances and preparations	☐
III	Sales of substances and preparations	☐
IV	Purchase of articles	☐
V	Manufacture of articles	☐
VI	Sales of articles	☐
VII	Management framework	R (common)

Results

Practical aspects

Number of responses required		**13**
	"Conforming"	**0**
	"Partially conforming"	**0**
	Non-conforming"	**0**
	Unanswered	**13**

[How to fill out survey card]
1. Basic information
Enter basic information such as company's name, Division (Office, Plant), person who input this sheet, etc.

2. Managment framework
"Tick" the applicable management classification for form of your company (subject to reply).
<<Terms and Definitions>>
"Substance" ... This term refers to an individual chemical substance. Ex. lead oxide, nickel chloride, benzene, etc.
"Preparation"... This term refers to a mixture (including solvent) intentionally comprising two or more individual chemical substances. Ex. Paints, inks, solders prior to use, adhesives, alloys, plating liquid, detergent, etc.
"Article (product formed into a shape)" ... This term refers to an item of specific shape, appearance, or design provided during manufacture which determines functions in final use at a level beyond that provided by its chemical composition. Ex. plastic housing, keyboards, personal computers, electronic components, etc.

3. Conditions of environmental management activities
Enter environmental management activity conditions of your company and your workshop in the "action condition" column and "evidence" column with respect to action details and questions with " v " entered in c

[Action condition] column
For each question, input "OK," "NG," or "NA (not applicable)" with respect to "rules" and "operation" on the basis of the following judgment criteria:
[OK] ... There are rules (systems) for the content shown by questions and operation (activity) is implemented.
[NG] ... There is no rule (system) for the content shown by questions and no operation (activity) is implemented or there is deficiency in part of the rules and operation. #
[NA] ... No subject to management for the content.
[Evidence] column
Enter facts and document names that indicate the performance of "rules" and "operation" for each question.
Incidentally, if there is any deficiency in "rules" or "operation," enter the details.

***We will fill out "individual evaluation" and "evaluation" columns in accordance with the response conditions of "performance" and "evidence" columns.** #

3. Activity condition of product environmental quality management

Action items	Action contents	Questions		Management framework							Need or no-need of answer	Response column (entered by your company)			Evaluation column (entered by our company)		
				I	II	III	IV	V	VI	VII		Performance (OK/NG/NA)		Evidence (facts, document name, etc.) (Enter practical aspects and portion with deficiency.)	Individual evaluation (A/B/C)		Evaluation (A/B/C)
												Rules	Operation		Rules	Operation	
1. Policy	Declare items to be dealt with in management of chemical substances in products.	a	Do your create a policy including details* concerning management of chemical substance in products? *Observance of related laws and regulations, development of control system, etc.											Name of the document that stipulates to prepare policies: Name of the person who created (approved) the policy:	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Is the policy approved by the management?											Name of the document that stipulates "approval": Position of the "executive":			
		c	Is the policy communicated and notified to the people inside by documentation, putting up notices, etc.?							v	Needed			Name of the document that stipulates "communication": Method of communication:			
		d	Is the policy periodically reviewed?											Name of the document that stipulates "review": Date of most recent review (revision):			
2. Planning																	
2.1 Definition of Control Standards	Control standards to be followed shall be clarified based on legislation and industry criteria related to control of chemical substances in products, and conveyed to related corporate units.	a	Do you declare the control standard to be observed based on laws and regulations concerning chemical substances in products, requirements of customers, etc., and industry's standards?											Name of the document that prescribes "identification of control standard." Method of control and storage:	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Are the current versions of control standard constantly accessible at required departments?							v	Needed			Name of the document that prescribes "access and disclosure": Method of access:			
		c	Do you notify any update (change, addition, deletion) of laws and regulations and requirements of customers, etc. to related department?											Name of document that prescribes "transmission at the time of renewal": Method of transmission:			
2.2 Definition of Scope of Control	'Organizations', 'business', 'chemical substances', 'constituent materials', 'processes', and 'products' etc shall be clarified as the scope of application of control standard for chemical substances in products.	a	Do you declare the "organization" subject to control?											Name of the document that prescribes "identification of organization": "Organization" subject to control (Ex.):	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do you declare "business" target to control?											Name of the document that prescribes "identification of services": "Services" subject to control (Ex.):			
		c	Do you declare "chemical substance" target to control and "control level (inclusion prohibition, use prohibition, monitoring, etc.)"?											Name of the document that prescribes "identification of chemical substance and control level": "Chemical substance and control level" subject to management (Ex.)			
		d	Do you declare "constituent materials*" target to control? *Raw material, parts, auxiliary material, etc. that compose products.							v	Needed			Name of the document that prescribes "identification of constituent materials": "Constituent materials" subject to cotrol (Ex.):			
		e	Do you declare "process*" target to control? *Include outsourcees and production subcontractors.											Name of the documents that prescribe "process identification": "Process" subject to control (Ex.):			
		f	Do you declare "products" target to control?											Name of the document that prescribes "product identification": "Product" subject to control (Ex.):			

Action items	Action contents	Questions		Management framework							Need or no-need of answer	Response column (entered by your company)			Evaluation column (entered by our company)		
				I	II	III	IV	V	VI	VII		Performance (OK/NG/NA)		Evidence (facts, document name, etc.) (Enter practical aspects and portion with deficiency.)	Individual evaluation (A/B/C)		Evaluation (A/B/C)
												Rules	Operation		Rules	Operation	
2.3 Establishment of Objectives & Planning for Implemented Processes	Target and plans for control of chemical substances in products shall be prepared. Objectives and plans shall be revised as necessary.	a	Do you prepare targets and plans* for control of chemical substances in products? *Prohibition of marketing, prohibition of purchase, total abolition, deletion, control, survey, substitution and development, completion of MSDS, completion of management system, etc.											Name of the document that prescribes "creation of plans": Most recent creation time:	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do you confirm progress condition of targets and plans?							v	Needed			Name of the document that prescribes "progress control": Most recent progress check time:			
		c	Do you review targets and plans in accordance with progress conditions and changes, etc. of laws and regulations, requirements of customers, etc.?											Name of the document that prescribes "review": Most recent review time:			
2.4 Definition of Organizational System, Responsibility & Authority	Authorization and responsibilities for control of chemical substances in products shall be clarified.	a	Do you declare the organization concerning management of chemical substances in products by organization charts, etc.?											Name of the document that prescribes "organization": Position of the top officer in the organization chart (Ex.: General Manager, Division)	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do you declare responsibilities and authorization in control of chemical substances in products?							v	Needed			Name of the document that prescribes "responsibilities and authorizations":			
3. Implementation & Management																	
3.1 Design and Development																	
3.1.1 Design for Manufacture of Substances/Preparations	When manufacturing substances/preparations, information on chemical substances in raw materials shall be verified, and products and manufacturing processes shall be designed to satisfy control standard. Specify specifications of purchased products if necessary.	a	Do you determine control standards (upper limit values, etc. of substance subject to control in products) as products on the basis of laws and regulations and industry standard concerning products?											Name of the document that prescribes "setting of control criteria": Most recent setting time:	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you verify information on contained chemical substances for purchased products such as raw materials, subsidiary materials?											Name of the document that prescribed "confirmation of purchased products":			
		c	Do you get hold of the change if the concentration and kind of contained chemical substances may be varied in manufacturing processes?											Name of the document that prescribes "getting hold of changes in processes": Name of process that changes (Ex.):			
		d	In order to satisfy the control standard for the products, do you determine purchasing and procurement conditions, manufacturing processes, manufacturing conditions, inspection and shipping conditions?	v	v									Name of the document that prescribes "setting of conditions, etc.":			
		e	Do you determine matters to be confirmed at each stage of testing, trial production, mass- production, etc. in the design and development stages?											Name of documents that prescribes "setting of check items":			
		f	Do you show the results of design and development in specifications, drawings, manufacturing specifications, operation manuals, manuals?											Name of the document that prescribes "entry to specifications, etc.":			
3.1.2 Design for Manufacture of Articles Using Substances/Preparations	When manufacturing articles from substances/preparations, information on chemical substances in raw materials shall be verified. Any possible changes in concentration and type of contained chemical substances in processes shall be understood. Furthermore, the product shall be verified as conforming to the control standards.	a	Do you determine control standards (upper limit values, etc. of substance subject to control in products) as products on the basis of laws and regulations and industry standard concerning products?											Name of the document that prescribes "setting of control criteria": Control criteria as products (Ex.):	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you verify information on contained chemical substances for purchased products such as raw materials, subsidiary materials?											Name of the document that prescribed "confirmation of purchased products":			
		c	Do you get hold of the change if the concentration and kind of contained chemical substances may be varied in manufacturing processes?											Name of the document that prescribes "getting hold of changes in processes": Name of process that changes (Ex.):			

Action items	Action contents		Questions	Management framework							Need or no-need of answer	Response column (entered by your company)			Evaluation column (entered by our company)		
				I	II	III	IV	V	VI	VII		Performance (OK/NG/NA)		Evidence (facts, document name, etc.) (Enter practical aspects and portion with deficiency.)	Individual evaluation (A/B/C)		Evaluation (A/B/C)
												Rules	Operation		Rules	Operation	
		d	In order to satisfy the control standard for the products, do you determine purchasing and procurement conditions, manufacturing processes, manufacturing conditions, inspection and shipping?	v	v									Name of the document that prescribes "setting of conditions":			
		e	Do you determine matters to be confirmed at each stage of testing, trial production, mass- production, etc. in the design and development stages?											Name of documents that prescribes "setting of check items":			
		f	Do you show the results of design and development results in specifications, drawings, manufacturing specifications, operation manuals, manuals?											Name of the document that prescribes "entry to specifications":			
	3.1.3 Design for Manufacture of Articles Using Articles	When manufacturing new articles from existing articles, information on chemical substances in articles (e.g. parts), and conformance of the product to the control standards, shall be verified.	a	Do you determine the control standards (upper limit values, etc. of substance subject to control in products) as products on the basis of laws and regulations and industry standard concerning products?										Name of the document that prescribes "setting of control criteria": Control criteria as products (Ex.):	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
			b	Do you verify information on contained chemical substances for purchased products such as raw materials, subsidiary materials?										Name of the document that prescribed "confirmation of purchased products":			
			c	In order to satisfy the control standard for the products, do you determine purchasing and procurement conditions, manufacturing processes, manufacturing conditions, inspection and shipping conditions?			v	v						Name of the document that prescribes "setting of conditions":			
			d	Do you determine matters to be confirmed at each stage of testing, trial production, mass- production in the design and development stages?										Name of documents that prescribes "setting of check items":			
			e	Do you show the results of design and development in specifications, drawings, manufacturing specifications, operation manuals, manuals?										Name of the document that prescribes "entry to specifications":			
3.2 Purchase Management																	
	3.2.1 Verification and Acquisition of Chemical Substances in Products Information	Information on the chemical substances in purchased products (IN information) shall be acquired, verified that it contains the necessary details, and that it is compatible with the control standards. For new products and changed products, acquisition and verification of information on chemical substances in products in accordance with the cotrol standards shall be complete prior to commencing mass production.	a	Do you obtain information on the contained chemical substances* in raw materials, subsidiary materials, and other purchased products used for manufacturing your company's products? *Inclusion or not in substances subject to control, the amount of content and concentration, use (The way of obtaining information include MSDS, MSDSplus, AIS, JGP files, report on constituent contents, analysis data).										Name of documents that prescribe "acquisition": Means of acquisition (Ex.):	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
			b	Do you verify information on the contained chemical substances obtained is free of any deficiency or obscure points in description?	v			v						Name of the document that prescribes "confirmation of description details":			
			c	Do you verify that the information on contained chemicals substances obtained is compatible with the control standards?										Name of the document that prescribed "conformity confirmation":			
			d	Do you obtain and verify information on contained chemical substances of purchased products concerning new products and changed products before starting mass production?										Name of the document that prescribes "acquisition before start of mass production":			

Action items	Action contents	Questions		Management framework							Need or no-need of answer	Response column (entered by your company)			Evaluation column (entered by our company)		
				I	II	III	IV	V	VI	VII		Performance (OK/NG/NA)		Evidence (facts, document name, etc.) (Enter practical aspects and portion with deficiency.)	Individual evaluation (A/B/C)		Evaluation (A/B/C)
												Rules	Operation		Rules	Operation	
3.2.2 Verification of Supplier Management Status	When selecting a new supplier, the status of control of chemical substances in the supplier's products shall be verified. When continuing with an existing supplier, reconfirmation shall be conducted as necessary. Measures for verification results shall be fixed. Supplier items to be verified, criteria, frequency, and method etc may be set in relation to risk level.	a	Do you declare requirements* for suppliers on control of chemical substances in products? *Management system, handling of banned substances, provision of data, etc.											Name of the document that prescribes "identification of requirements": Most recent requirements creation time:	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you notify suppliers of requirements on control of chemical substances in products by documents, drawings?											Name of the document that prescribes "transmission": Method of transmission:			
		c	Do you verify the status of suppliers of control of chemical substances in products by documents, visiting, or other means?	v			v							Name of the document that prescribes "Confirmation of control conditions": Confirmation method:			
		d	When transaction is continued, do you reconfirm the status of suppliers of control of chemical substances in products?											Name of the document that prescribes "re(periodical)-confirmation": Confirmation frequency:			
		e	Do you set out disposition measures* of confirmation results of suppliers? *Acceptance, continu transactions, requests for improvement, guidance, discontinuing transactions.											Name of the document that prescribes "disposition":			
3.3 Acceptance Verification	When accepting purchased products, such products shall be verified as compatible with company control standards. Items to be verified, criteria, method, and frequency etc may be selected in relation to the risk level of the purchased products.	a	Do you verify at the time of acceptance the purchased products are compatible with your company's control standards?	v			v							Name of the document that prescribes "confirmation at the time of acceptance": Method of acceptance confirmation:	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you set the acceptance check items in accordance with the risk level* of purchased products? *Possibility of inclusion of chemical substance subject to control.											Name of the document that prescribed "check items": Check items (Ex.):			
3.4 Process Control																	
3.4.1 Preventing Incorrect Use, Admixture, and Contamination	Implementation of measures to prevent incorrect use, admixture and contamination of chemical substances shall be subject to control.	a	Do you identify processes in which chemical substances specified in control standards are used?											Name of the document that prescribes "process identification": Name of the identified process (Ex.):	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you implement countermeasures * to prevent incorrect use, admixture, contamination in processes where chemical substances specified in control standards are used? *To separate processes, separate equipment, jigs and tools, if not separated, controlled by specifying appropriate procedures for identification and at the time of change-over.		v			v						Name of the document that prescribes "implementation of actions": Details of actions (Ex.):			
		c	Do you properly store (including warehouses) materials, semi-finished products, and finished products in processes where chemical substances specified in the control standards?											Name of the document that prescribes "storage control": Storage method (Ex.):			
3.4.2 Appropriate Management of Reaction Processes	Control shall ensure that residues do not remain, or are not created, when control standards for chemical substances subject to control are exceeded, due to changes in constituents and concentrations.	a	Do you identify processes that give changes in concentration of chemical substances by evaporation, vaporization, etc. and changes in the constituents of chemical substances by oxidation reduction, reactions? Ex. 1: Process in which composition change occurs by oxidation and reaction from trivalent chromium to hexavalent chromium Ex. 2: Process with soldering tanks containing lead.		v									Name of the document that prescribes "process identification": Name of the identified process (Ex.):	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you specify control items and control methods with care to prevent controlled chemical substances from exceeding the control standards in processes where chemical substance constitution and concentration vary and properly control?											Name of the document that prescribed "setting of control items": Control items (Ex.):			
3.4.3 Management of Sub-contractors	Control of manufacturing sub-contractors shall be appropriate.	a	Do you notify requirement details of necessary process control man to sub-contractors?		v			v						Name of the document that prescribes "transmission":	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you periodically verify the management system of chemical substances in products of sub-contractors periodically and give guidance where necessary?											Name of the document that prescribes "confirmation": Most recent confirmation time:			

Action items	Action contents		Questions	Management framework							Need or no-need of answer	Response column (entered by your company)			Evaluation column (entered by our company)		
				I	II	III	IV	V	VI	VII		Performance (OK/NG/NA)		Evidence (facts, document name, etc.) (Enter practical aspects and portion with deficiency.)	Individual evaluation (A/B/C)		Evaluation (A/B/C)
												Rules	Operation		Rules	Operation	
3.5 Shipping Verification	Products shall be shipped after verification that all specified items have been checked, including cases of implementation during acceptance, or during a process.	a	Do you clearly determine check items and check methods at the time of shipping with respect to chemical substances in products?											Name of the document that prescribes "check at the time of release":	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you shipping products after making sure all the specified check items have been implemented?			v			v								
3.6 Traceability	Product traceability shall be reliable.	a	Have you organized a system to quickly use, disclose, and transmit the following information, etc. for individual products? 1)Constituent materials and their manufacturing time and places 2)Chemical substances contained in constituent materials. 3)Chemical substances contained in the manufactured products							v	Needed			Name of the document that prescribes "traceability":	**No need to enter response column.**	**No need to enter response column.**	**No need to enter response column.**
		b	Do you control management information, information on abnormalities, information on changes in casual factors in processes?											Name of the document that prescribes "information control":			
3.7 Change Control	Rules for control of changes in management of chemical substances in products shall be determined, and the following details clarified. (1) Elemental changes having possible effects on chemical substances in products. Changes and additions in suppliers, changes in purchased items, and changes in processes etc (including changes not only in the company such as manufacturing conditions, molds, and jigs, but changes in sub-contractors etc). (2) Company internal and external procedures. Details to be verified, means of verification, approval processes etc. (3) Methods of transmitting information inside and outside the company. Recording changes, notification, identification information etc.	a	Have you determine rules for control of changes concerning chemical substances in products?											Name of the document that prescribes "change control":	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do you identify change elements that may affect chemical substances in products?											Name of the document that prescribes "identification of change elements": Identified change elements (Ex.):			
		c	Do you determine procedures when any change occurs (details to be varified, means of varification, approval processes.)											Name of the document that prescribes "disposition procedures":			
		d	Do you confirm changes of contained chemical substances and conformity to standards before making changes?							v	Needed			Name of the document that prescribes "conformity check before change": Most recent check time:			
		e	When any change occurs in chemical substances in products, do you provide the revised information on contained chemical substances quickly to affected people inside the company, suppliers, customers, etc.?											Name of the document that prescribes "provision of information":			
3.8 Non-conformity Response	Rules for measures to deal with non-conforming products (emergency measures, determination of causes, preventing reoccurrence, horizontal deployment etc) shall be determined.	a	Do you determine rules for measures taken when non-conforming products occur?											Name of the document that prescribes "actions when nonconformity occurs":	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do the rules contain the following as actions taken as emergency measures? 1) Identification of the scope of influence (identification of the affected lot, equipment involved, etc.) 2) Containment (halting shipping, halting production) 3) Notification to in-house, customers, responsible persons for control of contained chemical substances, and management							v	Needed			Name of the documents that prescribes "first-aid actions": Details of the first-aid actions (presence or absence of 1) to 3) on the left):			
		c	Do the rules contain the following as actions after emergency measures? 1) Identification of causes 2) Determination of necessary measures 3) Prevention of reoccurrence 4) Horizontal deployment to affected sections											Name of the documents that prescribes actions after "first-aid": Details of the actions (presence or absence of 1) to 4) on the left):			

Action items	Action contents	Questions			Management framework							Need or no-need of answer	Response column (entered by your company)			Evaluation column (entered by our company)		
					I	II	III	IV	V	VI	VII		Performance (OK/NG/NA)		Evidence (facts, document name, etc.) (Enter practical aspects and portion with deficiency.)	Individual evaluation (A/B/C)		Evaluation (A/B/C)
													Rules	Operation		Rules	Operation	
4. Management of Human Resources, Documentation, and Information												Needed						
4.1 Training	Details of training required for management of chemical substances in products, and related persons shall be identified and implemented.	a	Do you identify necessary training for services involved in management of chemical substances in products?												Name of the document that prescribes "identification of training": Identified training (Ex.):	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do you identify employees involved in management of chemical substances in products and implement necessary training?								v	Needed			Name of the document that prescribes "implementation of training": Most recent training implementation day:			
		c	Do you verify that necessary training is provided to all the applicable people without omission?												Name of the document that prescribes "confirmation of performance": Most recent check time:			
4.2 Management of Documentation and Records	Rules related to control of chemical substances in products shall be documented, maintained, and managed. Records of results of operation shall be prepared and stored appropriately.	a	Do you have any documents that determine rules concerning management of chemical substances in products? *Policy, manual for management of chemical substances in products, related chemical substances management procedures regulations, standards, criteria, specifications, written procedures, etc.												Name of the documents that prescribes "documentation":	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do you have any documents (document structure diagram, etc.) that summarizes systematically the system for management of chemical substances in products and related documents?												Name of the document that prescribe "creation of document system, etc.":			
		c	Do you review documents concerning management of chemical substances in products as necessary?								v	Needed			Name of the document that prescribes "document review":			
		d	Are documents concerning management of chemical substances in products in the environment in which the affected people are able to confirm the current versions?												Name of the document that prescribes "disclosure of documents to affected people":			
		e	Do you prepare and store records* of operation results concerning management of chemical substances in products? *Information on contained chemical substances, acceptance confirmation data, shipping confirmation data, internal audit results, survey data, analysis data, etc.												Name of the document that prescribes "record and storage of operation results": Retention method and retention period:			
4.3 Communication (Provision of Information)	Information on chemical substances in products (OUT information) shall be provided appropriately to suppliers. Appropriate response shall be provided to enquiries on the management system for chemical substances in products.	a	Do you specify contact points to provide information to the outside with respect to information on chemical substances in products and to respond to inquiries from the outside?												Name of the document that prescribes "contact point: Name of the organization that serves as contact point:	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do you determine rules for providing information to the outside and responding to inquiries from the outside?								v	Needed			Name of the document that prescribes "responding rules"			
		c	Do you determine procedures for creating information on chemical substances in products (MSDS, MSDS plus, AIS, JGP files)?												Name of the document that prescribes "creation procedure": Number of created pieces of information per month (reference):			

Action items	Action contents		Questions	Management framework							Need or no-need of answer	Response column (entered by your company)			Evaluation column (entered by our company)		
				I	II	III	IV	V	VI	VII		Performance (OK/NG/NA)		Evidence (facts, document name, etc.) (Enter practical aspects and portion with deficiency.)	Individual evaluation (A/B/C)		Evaluation (A/B/C)
												Rules	Operation		Rules	Operation	
5. Performance (State of Implementation) Evaluation and Improvement	Status of management of chemical substances in products shall be verified periodically through an internal audit, and items requiring improvement shall be improved. Results of verification shall be reported to management.	a	Do you prescribe determine implementation procedures and periodically implement internal audits concerning chemical substance in products?											Name of the document that prescribes "implementation of internal audits": Most recent internal audit implementation	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Do internal auditors implement training necessary for management of chemical substances in products, such as trends of laws and regulations, customer requirements, technologies, and others?											Name of the document that prescribes "training for auditors": Most recent training implementation time:			
		c	As a result of internal audits, do you determine improvement actions and confirm improvement results for problems?							v	Needed			Name of the document that prescribes "confirmation of improvement action and results":			
		d	Are internal audit and improvement results reported to management, etc.?											Name of the document that prescribes "report on audit results": Most recent reporting time:			
6. Management Review (Correction by Management)	When the manager determines, from the results of an internal audit, that there are problems with non-conformance, improvements shall be implemented and reflected in the next objective.	a	Do you have a system in which the management is able to obtain information* for get hold of control status of chemical substances in products? *Example of information a) Reports on internal audits b) Product conformance status reports for product requirements (e.g. concerning defects, problems, quality abnormalities, complaints) c) Information from customers (e.g. complaints, customer satisfaction survey results, customers opinions) d) Report on corrective measures e) Report on preventive measures f) Results reports on the control of chemical substances in products g) Information on various changes that could affect the management of chemical substances in products (e.g. organizational change, market trends, modified specifications change, trends of laws and regulations, trends of technological development)							v	Needed			Name of the document that prescribes "provision of information to the management": Most recent information provision time:	**Enter response column.**	**Enter response column.**	**Enter response column.**
		b	Does management improve problems pointed out by the internal audits and external audits results and nonconformity occurring conditions by the method* of reflecting them to targets, etc. of the next term? *Examples of improvement a) Change in the policy and targets b) Change in organizational system c) Change of other elements in management of chemical substances in products											Name of the document that prescribes "management review": Most recent improvement instruction (implementation) time:			

([General] Form 2)

Warranty of non-use Prohibited Chemical Substances

To: Director of Corporate Purchasing Group
Kyocera Corporation

Business Partner Priority Code:

Company:	(Corporation seal)
Section:	
Person in charge:	
Entered by:	
Entered on:	

We hereby guarantee that Prohibited Chemical Substances of Rank A and B listed in Kyocera Green Procurement Guideline (hereafter referred to as the “Guideline”) were not contained, and the aforementioned Prohibited Chemical Substances of Rank A were not used in manufacturing processes about the following delivered products listed in "Subject of products". Additionally, we guarantee that we completely abolish the use of certain chemical substances specified by Kyocera within the period. When the Guideline is revised due to changes in the law, ordinances, social circumstances, and the specification of Kyocera’s customers or other related factors, we will confirm ourselves promptly of such revision. If some products are not adapted to the revised Guideline, we are going to inform it to Kyocera.

*Intentional uses of rank A and B are prohibited whether the threshold value is specified or not. When the specified threshold value of substance is mentioned, it is prohitted to contain more than its threshold per each part of its components, even if it is impurities.

<Subject of products> *Please refer to the attached file and fill out blanks.

Item code	Product name	Specification	Your company's Model No.

([General] Form 3-1)

Report of Constituent Contents (for chemical substance and preparation)

To: Procurement Department, _______________ Plant/Business Office
Kyocera Corporation

[Information of Kyocera]

Business place code	
Business place	
Department	
Requester code	
Demander	

[Information of Business Partner]

Date	
Business partner code	
Company name	
Person in charge	
e-mail address	
Phone No.	
Fax No.	

[Object]

Object substance or preparation serial no.	
Item code	
Product name	
Specification	

It is necessary to input all components about shipped substance and/or preparation. However, if it is "FOR INTERNAL USE ONLY" and all elements could not be informed, please input "Others" into the column of "Chemical substance name". Nevertheless, if Rank A, B or C substance of Kyocera green procurement guideline are contained, please make sure to input "Chemical substance name" and "CAS No." even though it is "FOR INTERNAL USE ONLY".

Total weight	(unit)

Content Classification
1 : Intentionally contained substance
2 : Substance added intentionally during process and contained in product
3 : Impurities

Chemical substance name	CAS No.	Minerals contained or not contained.*1	Content ratio/weight*2		Content Classification*3	Remarks
			Content ratio(wt%)	Content weight (mg)		
(Example) Copper	7440-50-8	V	70.0	350	1	
(Example) Zinc	7440-66-6	V	28.0	140	1	
(Example) Lead	7439-92-1	V	0.0500	0.0250	3	Pb-RE-4: Copper alloy containing 4% or less, exceeding 1000ppm in homogeneous material, of lead by weight (e.g. brass,
(Example) Others	-	V	1.95	0.975	1	
		Total weight (mg)		0.00		
		Total content ratio (%)		#DIV/0!		

Notes:

*1 In the event any minerals (including those purified) are included in raw material, input "V" in the column of "minerals contained or not contained."

*2 Input mass, rate of content, and content in three significant figures (round off to a number of three figures) and make column of "Total content ratio (%)" 100%
If the content ratio of rank A, B and C substance vary over a certain range, input the maximum ratio to column of "Remarks".

*3 Choose the classification from column of "Content Classification" about each substance.

([General] Form 3-2)

Report of Constituent Contents (for articles)

To: Procurement Department, _______________ Plant/Business Office
Kyocera Corporation

[Information of Kyocera]

Business place code	
Business place	
Department	
Requester code	
Demander	

[Information of Business Partner]

Date	
Business partner code	
Company name	
Person in charge	
e-mail address	
Phone No.	
FAX No.	

[Object]

Object substance or preparation serial no.	
Item code	
Product name	
Specification	

It is necessary to input all components about shipped substance and/or preparation. However, if it is “FOR INTERNAL USE ONLY” and all elements could not be informed, please input “Others” into the column of “Chemical substance name”. Nevertheless, if Rank A, B or C substance of Kyocera green procurement guideline are contained,please make sure to input “Chemical substance name” and "CAS No."

Total weight	(unit)

Content Classification
1 : Intentionally contained substance
2 : Substance added intentionally during process and contained in product
3 : Impurities

Parts name	Parts weight *1	Section	Section weight *1	Material name of Section*2	Chemical substance name constituting section	CAS No.	Rank*3	Content ratio/weight*2		Content Classification *6	Purpose of containing*7	Remarks
								Content ratio(wt%)*4	Content weight (mg)*5			
(Example) Metal terminal	0.5306	(Example) Base material	0.500	Copper alloy.	(Example) Copper	7440-50-8	-	70.0	35.0	1	-	
					(Example) Zinc	7440-66-6	-	28.0	14.0	1	-	
					(Example) Lead	7439-92-1	Rank C	0.0500	0.0250	3	Pb-RE-4 :Copper alloy containing 4% or less, exceeding 1000ppm in homogeneous material, of lead by weight (e.g. brass, phosphor bronze)	
					(Example) Others	ー	-	1.95	0.975	1	-	
		(Example) Nickel plating.	0.0306	Nickel plating.	(Example) Nickel	7440-02-0	-	95.2	29.1	1	-	
					(Example) Boron	7440-42-8	-	1.49	0.452	1	-	
					(Example) Lead	7439-92-1	-	0.495	0.151	1	Pb-R-0 :Cases containing 1000ppm or less of intentionally added lead in homogeneous material, excluding specified uses. (* Details in column on	Lead in electroless nickel plating.
					(Example) Palladium	7440-05-3	-	2.82	0.923	1	-	

Total weight of parts (g)	0.0000
Total content ratio of parts (%)	#DIV/0!

Total weight of substances (g)	0.00
Total content ratio of substances (%)	#DIV/0!

Notes:
*1 Input mass, rate of content, and content in three significant figures (round off to a number of three figures) and make column of "Total content ratio (%)" 100%.
*2 Choose the material name from "[Appendix 1] Material Classification".
*3 If the substance in question is categorized as a Prohibited Chemical Substance (of rank A, B or C), choose the rank of substance. If it is not available, input "-".
*4 Input mass, rate of content, and content in three significant figures (round off to a number of three figures) and make column of "Total content ratio (%)" 100%.
If the content ratio of rank A, B and C substance vary over a certain range, input the maximum ratio to column of "Remarks".
*5 Input mass, rate of content, and content in three significant figures (round off to a number of three figures) and make column of "Total content ratio (%)" 100%.
*6 Choose the classification from column of "Content Classification" about each substance.
*7 If substances listed "[Appendix 2] table of intended use code" were contained, choose "Intended use classification" from the table.

(Attach this document to products to be delivered.)

([General] Form 4)

Certificate of Constituent Contents

To: _____ Plant/Business Office, Kyocera Corporation

Product:	
Lot No.:	
Quantity:	
Delivered on:	

We hereby certify that the inspection results for the products shown above are in accordance with the findings shown in either the Survey of Chemical Substance Contents, or the Report of Constituent Contents, submitted on: / / .

Company:	
Section:	
Entered by:	(Seal)
Approved by:	(Seal)
TEL:	
e-mail:	

([General] Form 5)

Application for Change

Date:

To: Material Department, _____ Plant/Business Office
Kyocera Corporation

Kyocera

Business office code	Business office	Department	Requester code	Requester

Business Partner

Object article serial No.	Business partner code	Company name	Object article	Item code	Specifications

Prepared on	Prepared by	e-mail address	Phone No.	Fax No.

1. We request that you approve the change(s) to the matters subject to change control confirmation indicated below with respect to the above product.
We are attaching the necessary documents to this application. (The items to be changed are marked "○.")

Change of material(s) used	Change of production method
Change of part(s)	Change of storage method
Change of production process	Change of quality control method
Change of production site	Change of person in charge of quality control (application may be made after change)
Change of production equipment	Change of material supplier
Change of instrument(s)	

2. Reason for Change

_____

_____

3. Date by which your approval must be obtained

_____

4. List of attached documents

_____

Approval by Kyocera	
Section:	
Approved by:	(Seal)
Approved on:	

⇩

formation to be provided by business partn	
Entered on:	
1st lot No. after change:	
Entered by:	(Seal)