

Green Procurement Guidelines

Ver. 5.0

<Slogan>

As a team,

we strive for the development of eco-friendly products
and the conservation of the environment
to ensure the cleanliness of the global climate.



NAKAYO

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1. Purpose of Green Procurement

The purpose of this guideline is to source eco-friendly parts and services from suppliers who are actively involved in environmental conservation.

2. Scope of Application

These guidelines apply to all items and services procured by Nakayo Telecommunications, Inc. and delivered from suppliers, such as raw materials, parts, packing materials, partially-completed products, fully-completed products, equipment and tooling, secondary materials, writing materials, office and stationery supplies, office equipment, services and logistics.

3. Investigation and agreement of environmental conservation for suppliers

To realize the purpose stated in the paragraph 1, Nakayo Telecommunications, Inc. requires suppliers to study and submit "Green Procurement Survey for Suppliers", "Survey of Hazardous Chemical Substances", "Application for Change of Production Condition of Purchased Product", "Hazardous Chemical Substances Inclusion Survey" and "Non-Inclusion Certificate" and to conclude "Memorandum on Chemicals Contained in Delivered Materials".

Information on the status of the suppliers' environmental activities and the status of environmental conservation load reduction of the procured products provided by suppliers is utilized to develop and design eco-friendly products to deliver environmentally-compatible products to customers, as well as to support environmental load-reducing activities as a part of the business activities of Nakayo Telecommunications, Inc. and suppliers.

* Please download forms for each survey from the table 1.

Table 1: List of Surveys

Survey Category	Scope	Disclosure Category	Frequency	Documents	Download
Survey for suppliers	All suppliers	Required	At the time of starting new transaction	Table 4 "Green Procurement Survey for Suppliers"	t4en.xls
Environmental impact assessment	Production process (by manufacturing facility)	As needed	At the time of changing 4M	Table 5 "Survey of Hazardous Chemical Substances"	t5en.doc
				Table 1 "Application for Change of Production Condition of Purchased Product"	fig1en.xls
Survey of procured products	Raw materials Packing materials Parts Partially-completed products Fully-completed products	Required	At the time of accepting new parts	Figure 2 "Non-Inclusion Certificate"	fig2en.xls
				Table 6 "Hazardous Chemical Substances Inclusion Survey"	t6en-v6.1.xls
		Additional document is needed if the answer for "Other Potential REACH SVHC" is "included" in the table 6.	JAMP MSDS plus or JAMP AIS	http://www.jamp-info.com/dl#en	

[Reference]

1) JAMP MSDS Plus (Material Safety Data Sheet Plus)

It is a supplementary MSDS document in a format released by Joint Article Management Promotion-Consortium (JAMP) to provide chemical substances information included in substances and compounding ingredients such as paint and adhesive agent.

2) JAMP AIS (Article Information Sheet)

It is a document intended to provide chemical substances information included in articles (parts and products) in a format released by JAMP.

3.1 Investigation of Suppliers

As a condition for starting a new transaction, Nakayo Telecommunications, Inc. attaches importance to suppliers' "environmental conservation activities" and "status of the suppliers' environmental conservation for procured products" that we purchase from the suppliers. Our suppliers are encouraged to actively cooperate with us and satisfy the following guidelines.

(1). Items related to environmental activities of suppliers

Suppliers are kindly requested to participate in the investigation for the status of the environmental activities and submit the **table 4 "Green Procurement Survey for Suppliers"**.

- i). Already obtained environmental certification such as ISO 14001 certification or other equivalent management system is in use.
 - Verifies the date of acquisition of ISO 14001 and certification authority.
- ii). Green Procurement is implemented.
- iii). If any of the external certifications such as ISO 14001 has not been obtained, the following shall be satisfied:

- **Corporate philosophy and policy**

- (1). Have a corporate policy regarding environmental protection.
- (2). Set environmental guidelines to ensure a continuous improvement and prevention of pollution.
- (3). The company's environmental policy commits to observe legal restrictions.
- (4). The company's environmental policy is known to all employees and available to any third party.

- **Plan and organization**

- (5). Assign specific organizations or persons to carry out relevant responsibilities toward the goal and target.
- (6). Have an implementation plan to achieve the goal and target.
- (7). Have a goal and target for environmental protection.

- **Environment assessment / system**

* Control and assess the following items in the manufacturing process in an effort for improvement:

- (8). Reduce water contamination.
- (9). Reduce air pollution.
- (10). Reduce noise and vibration.
- (11). Treat waste properly and reduce the amount of waste disposal.
- (12). Reduce energy consumption (electricity, gas, fuel, etc.)
- (13). Prohibit the use of hazardous chemical substances prohibited by Nakayo in the production line.
- (14). Have a product assessment program.
- (15). Have a systematic plan for emergency.
- (16). Have any internal environment audit program.

- **Provision of education, training, and information**

- (17). Implement an environmental education program.
- (18). Implement training for personnel engaged in work that may significantly affect the environment and have a list of such personnel.
- (19). Provide information related to environmental protection.

(2). Items related to the status of environmental load reduction of the procured products (raw materials, packing materials, parts, partially-completed products, fully-completed products)

With regard to the products that Nakayo procures from suppliers, suppliers are requested to participate in the investigation concerning the environmental load reduction items and information of hazardous chemical substances contained in products (product mass, contained hazardous chemical substances, density, usage application and usage site).

3.2 Environmental Impact Assessment

As a concept of Nakayo's environmental aspects and the environmental impact assessment, Nakayo considers that the input associated with the production activities of suppliers (input of energy and raw materials) and the output (unwanted materials such as waste materials and discharged water and discharge of usable materials such as products) as the environmental aspects, and Nakayo conducts an assessment of the environmental impact caused by these aspects. Suppliers are requested to fill in the **table 5 "Hazardous Chemical Substances Inclusion Survey"** as needed to investigate the usage of substances controlled by laws and regulations that have an impact on air pollution, water contamination, odor nuisance and ozone layer destruction.

3.3 Investigation Related to Procured Products

(1). Investigation of chemical substances included in products

For the procured production materials such as raw materials, parts, packing materials, partially-completed materials and fully-completed materials (including secondary materials such as paints and plating solution) which Nakayo adapts for the first time, suppliers are requested to break down to the level of raw materials for each part and fill in the table 6 "Hazardous Chemical Substances Inclusion Survey" as a document of parts qualification.

i). Response to chemical substances subject to investigation and REACH

i-1). Investigation of hazardous chemical substances

Hazardous chemical substances are voluntarily controlled in accordance with the following groups:

1) Prohibited substances, 2) suppressive substances and 3) controlled substances. Suppliers are encouraged to respond as stated in the table 2 if procured products contain any substance specified by Nakayo.

Table 2: Hazardous chemical substances groups/ correspondence table

Group	Correspondence
Prohibited substances	Must replace immediately
Suppressive substances	Must suppress the inclusion
Controlled substances	Must handle properly: As specified by Nakayo

i-2). Additional investigation of hazardous chemical substances

(If it contains "Other potential REACH SVHC" specified in table 6)

- Please submit additional documents using JAMP MSDS plus or JAMP AIS form.
- In addition to the chemical substances subject to investigation, we have added "Other potential REACH SVHC". Nakayo's potential REACH SVHC targets not only the specified SVHC subject to the acceptance and information transfer under the REACH, but also the SVHC which is expected to be included in the future. It intends to reduce the load of Nakayo and the suppliers with consideration for re-investigation that is given every time when new SVHC is added to the list.

Specifically, "**potential REACH SVHC**" are the substances listed on a survey form called MSDS Plus and AIS released by Joint Article Management Promotion-Consortium (JAMP)

*Main chemical substances included in potential REACH SVHC:

- (1). 64/548/EEC: CMR 1, 2 (Carcinogenic, mutagenic or reproductive toxicity)
- (2). 76/769/EEC: Substances restricted to put on the market or use
- (3). PBT substances: Persistent, bio-accumulative and toxic substances
- (4). vPvB substances: Very persistent and very bio-accumulative substances

ii). Information management of the potential REACH SVHC

REACH requires suppliers to autonomously and voluntarily transfer information about chemical substances. Suppliers are requested to do their best to collect information of chemical substances contained in products within a reasonable range.

Suppliers are requested to report the information in any case; even a statement such as "there is no information available that shows inclusion of the chemical substances" is to be reported when appropriate.

For that reason, it is mandatory to provide necessary information each time when new inclusion information is obtained from an upstream supply chain after submitting the initial response.

(2). Submission of non-inclusion certificate

As a warranty supporting the Hazardous Chemical Substances Inclusion Survey in table 6, suppliers are requested to submit "Non-Inclusion Certificate".

3.4 Request of Submitting the "Application for Change of Production Condition of Purchased Product"

Suppliers are required to submit "Application for Change of Production Condition of Purchased Product" to a representative of the Procurement Section of the Engineering Department because changes in 4M such as a change of workers (Man), a change of machines and equipment (Machine), a change of materials and parts (Material) and a change of manufacturing process or method (Method) are considered to be an item of importance in quality control. For details on the cases that require submission of "Application for Change of Production Condition of Purchased Product", please refer to the table 3. In addition, for changes not mentioned in the table 3 and to check if it is required submitting the document or not, please contact the Procurement Section.

Table 3: Change in 4M that requires submitting "Application for Change of Production Condition of Purchased Product" (Example)

No	Types of change in 4M	Description of the change
1	Worker (Man)	(1) Change of supplier (parts supplier, material supplier, outsourcing) (2) Transfer of a manufacturing location to a different factory (from Japan to overseas) (3) Change of office organization at inspection dept.
2	Machine and equipment (Machine)	(1) Change of machine and equipment (2) Expansion of machine and equipment to something similar (3) Change of setup condition for machine and equipment
3	Materials and parts (Material)	(1) Change of material, parts measurement and structure (2) Change of spec and product name to respond to the environment or other measures <e.g.> Changes associated to make it lead-free or to correspond to RoHS guidelines. (3) Change of secondary materials (adhesive agent, implants, drugs, etc.) (4) Delivery of long term inventory (5) Change of packaging form and transportation method
4	Manufacturing process or method (Method)	(1) Change of production method (changing from manual labor to mechanization, change of mold, etc.) (2) Change of processing conditions (changes in temperature, number of times, time, surface treatment, etc.) (3) Change of process management method (changes in standards, management items, etc.) (4) Change of work environment (Relocation of a factory, layout change, etc.) (5) Resumption of production (resumption after production stoppage or after taking measures for major incident, etc.) (6) Change of inspection method

3.5 Conclusion of Memorandum on Chemicals Contained in Delivered Materials

For the procured products that are considered as production materials, such as raw materials, parts, partially-completed products and fully-completed products, suppliers are requested to conclude the "Memorandum on Chemicals Contained in Delivered Materials" (Memorandum) from the perspective of quality management.

Table 4 "Green Procurement" Survey for Suppliers

Supplier Code _____

(1) Items related to ISO 14001 Certification

Items	Yes / No	Date of acquisition	Certification body	Certification Number
Already obtained ISO 14001 certification or other equivalent management system is in use				
Planning to acquire ISO 14001 certification or other equivalent management system certification	Yes / No	Expected date of screening	Certification body	

(2) Items related to support the "Green Procurement" approaches

Items	Yes / No
Green Procurement is implemented	
System equivalent with the Green Procurement is in use	

(3) Items related to environmental conservation activities (If any of the above criteria under (1) "Items related to ISO 14001 Certification" is applicable, it is not necessary to complete the form below. However, if you are planning on

Items	ISO Requirements (Reference)	Assessment Criteria	Entry Field
Corporate philosophy and policy	Environmental guidelines (4.2)	(1). Have a corporate policy regarding environmental protection.	
		(2). Set environmental guidelines to ensure a continuous improvement and prevention of pollution.	
		(3). The company's environmental policy commits to observe legal restrictions.	
		(4). The company's environmental policy is known to all employees and available to any third party.	
Plan and organization	Goal, target and implementation plan (4.3.3) Resources, tasks, responsibilities and authorities (4.4.1)	(5). Have a goal and target for environmental protection.	
		(6). Assign specific organizations or persons to carry out relevant responsibilities toward the goal and target.	
		(7). Have an implementation plan to achieve the goal and target.	
Environment assessment / system	Environmental aspects (4.3.1) Operational management (4.4.6) Preparedness and respond against various emergencies (4.4.7) Monitoring and measurement (4.5.1) Compliance evaluation (4.5.2) Record management (4.5.4) Internal audit (4.5.5)	* Control and assess the following items in the manufacturing process in an effort for improvement:	
		(8). Reduce water contamination.	
		(9). Reduce air pollution.	
		(10). Reduce noise and vibration.	
		(11). Treat waste properly and reduce the amount of waste disposal.	
		(12). Reduce energy consumption (electricity, gas, fuel, etc.)	
		(13) Have a total abolition and reduction plan of hazardous chemical substances.	
		(14). Have a product assessment program.	
		(15). Have a systematic plan for emergency.	
		(16). Have any internal environment audit program.	
Provision of education, training, and information	Competence, educational training and awareness (4.4.2)	(17). Implement an environmental education program.	
		(18). Implement training for personnel engaged in work that may significantly affect the environment and have a list of such personnel.	
		(19). Provide information related to environmental protection.	

Company Name	
Office Name	
Office Address	
TEL	

Completed by	
Title	
TEL	
Response date	

Rank

Yes: Applicable
 No: Not applicable
 —: Not eligible

Table 5: "Survey of Hazardous Chemical Substances" (water contamination, air pollution, odor nuisance and ozone layer destruction)

●Please enter "the estimated annual usage to the delivered amount" in the usage amount column, if it was used in the product manufacturing process in the past year.

Supplier _____ Name: _____

●If the annual usage of the substance is less than 1 kg, enter "few" in the usage amount column.

Responsible Person: _____

N O	Substances controlled by the Water Quality Pollution Control Act	Usage kg / Year	N O	Substances controlled by the Air Pollution Control Act	Usage kg / Year	N O	Substances controlled by the Offensive Odor Control Act	Usage kg / Year	N O	Substances controlled by the Act for Protection of the Ozone Layer through Regulation of Designated Substances, etc.	Usage kg / Year	
1	Cadmium and its compound		1	Ammonia		1	Ammonia		1	Specified CFC (Chlorofluorocarbon) Attachment A Group I	CFC - 11	
2	Cyanogen and its compound		2	Hydrogen fluoride		2	Methyl mercaptan		CFC - 12			
3	Organic phosphorous compound		3	Hydrogen cyanide		3	Hydrogen sulfide		CFC - 113			
4	Lead and its compound		4	Carbon monoxide		4	Methyl sulfide		CFC - 114			
5	Hexavalent chromium compound		5	Formaldehyde		5	Methyl disulfide		CFC - 115			
6	Arsenic and its compound		6	Methanol		6	Trimethylamine		2	Specified halon Attachment A Group II	Halon - 1211	
7	Mercury and its compound		7	Hydrogen sulfide		7	Acetaldehyde		Halon - 1301			
8	Alkyl mercury compound		8	Phosphorus hydride		8	Propionaldehyde		Halon - 2402			
9	PCB		9	Hydrogen chloride		9	N-butyl aldehyde		3	Other CFC (Completely halogenated chlorofluorocarbon) Attachment B Group I	CFC - 13	
10	Trichloroethylene		10	Nitrogen dioxide		10	Isobutyraldehyde		CFC - 111			
11	Tetrachloroethylene		11	Acraldehyde		11	N-Valeraldehyde		CFC - 112			
12	Dichloromethane		12	Sulfur dioxide		12	Isobutanol		CFC - 211			
13	Carbon tetrachloride		13	Chlorine		13	Ethyl acetate		CFC - 212			
14	1,2- Dichloroethane		14	Carbon bisulfide		14	Methyl isobutyl ketone		CFC - 213			
15	1,1- Dichloroethylene		15	Benzene		15	Toluene		CFC - 214			
16	Cis - 1,2 - Dichloroethene		16	Pyridine		16	Styrene		CFC - 215			
17	1,1,1- Trichloroethane		17	Phenol		17	Xylene		CFC - 216			
18	1,1,2- Trichloroethane		18	Sulfuric acid (incl. Sulfur trioxide)		18	Propionic acid		CFC - 217			
19	1,3- Dichloropropene		19	Silicon fluoride		19	N- Butyric acid		4	carbon tetrachloride Attachment B Group II	CCL4	
20	Thiuram		20	Phosgene		20	N- Valeric acid		5	1,1,1- Trichloroethane (methyl chloroform) Attachment B Group III	C ₂ H ₃ CL ₃	
21	Simazine		21	Selenious anhydride		21	Isovaleric acid		6		Alternative CFC (Hydrochlorofluorocarbon) Attachment C Group I	HCFC - 21 And other 39 types
22	Thiobencarb		22	Chlorosulfuric acid		22	Isovaleraldehyde		7	Hydrobromofluorocarbons Attachment C Group II		34 types
23	Benzene		23	Yellow phosphor					8			Methyl bromide Attachment E Group I
24	Selenium and its compound		24	Phosphorus trioxide					9	Bromochloromethane Attachment C Group III	CH ₂ BrCl	
25	Boron and its compound		25	Bromine								
26	Fluorine and its compound		26	Nickel carbonyl								
27	Ammonia, ammonium compound, nitrous acid compound and nitric acid compound		27	Phosphoric chloride								
			28	Mercaptan								

Date:

Distribution	
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Application for Change of Production Condition of Purchased Product

Submitted by (Company Name):

Nakayo Telecommunications, Inc.
Procurement Section of Engineering Dept.

*Procurement Section Control #: _____

Stamp

Name of Product			Fig. #			EDP Code		
*Target main model			Expected Implementation Date	Effective date of order by Nakayo:				
Purpose								
Details of the Change	New				Old			
Point to be checked	Conflict with delivery specification, etc.		Yes / No →→→→→ If Yes, specify the date of submission:					
	Attachment of quality verification data		Yes / No		Expected date of submitting sample:			
Effect								
Internal notice for circulation	Procurement Section		Determination of Procurement Section		Quality Assurance Dept.		Preferred date of return	
	In Charge	Manager	Please circle one.		In Charge	Manager	Manager	In Charge
			Urgency	Urgent	Normal			
Determination of Quality Assurance Dept.	Yes	Yes with some conditions	No	Note: If it is determined to be "No" or "Yes with some conditions", we do not accept delivery of the modified product until it is determined to be "Yes".				[Article]
	A Details		(1) Quality related issue	Yes / No	(5) Change of EDP# (design)	Required / Not Required		
			(2) Replacement of delivery spec *3 copies	Required / Not Required	(6) Change of product name (design)	Required / Not Required		
			(3) Requalification of parts	Required / Not Required	(7) Hazardous Chemical Substances Inclusion Survey	Required / Not Required		
			(4) Needs additional reliability data	Required / Not Required	(8) Non-Inclusion Certificate	Required / Not Required		
*Action(s) to be taken and due date	<Internal>		(1) Issuance of a design change request	Required / Not Required	(4) Expected completion date of design verification: Due date			
			(2) Issuance of parts certification request	Required / Not Required	(5) Expected completion date for requalification: Due date			
			(3) Price change	Yes / No	(6) Other			
			Note: If (1) and (2) are applicable, the determination result shall be reported to the supplier immediately.					
	B <Supplier>		(1) Replacement category: Mandatory : Voluntary	(5) Submission of Hazardous Chemical Substances Inclusion Survey or Non-Inclusion Certificate: Due date				
			(2) Replacement control #: Or, replacement implementation date:					
			(3) Mixed use of lot: Possible / Not Possible	(6) Sample for design verification: No. of pieces : Due date				
			(4) Submission of delivery spec *3 copies: Due date	(7) Sample for parts verification: No. of pieces : Due date				
	<Message to a supplier>							
						Return date of the application		
						Date:		
						Procurement Section		
						In charge		Manager

Sections marked with * are filled by the Procurement Section. Shaded sections are filled by the company submitting this form. Sections enclosed with a double line are filled by the quality assurance dept.

Style V-009-11

Figure 1

Description of entry method

[Legend] Pink colored call-outs for applicant, yellow ones for Nakayo

Distribution		Application for Change of Production Condition of Purchased Product		Date: _____	
Nakayo Telecommunications, Inc. Procurement Section of Engineering Dept.		Submitted by (Company Name) _____		If unknown, please contact the Nakayo's procurement representative.	
*Procurement Section Control #: _____		_____		Stamp	
Name of Product		Fig. #	EDP Code		
*Target main model		Expected Implementation Date	Effective date of order by Nakayo: _____		
Purpose	● Fill out by a procurement representative. ● Boxes in blue indicate changes from Ver. 10.				
Details of the Change	● Example of a case when it is Yes: As in a spec change in packing, if the change is minor and there is no direct change to the quality property and it can be determined with a documentary examination. ● "Yes with some conditions" applies to the case when it becomes "Yes" after completing a requalification of parts or design change. In addition, if it falls under "Yes with some conditions", we do not accept delivery (replacement) of the modified product until it is determined to be "Yes".		Old		
			Be sure to clarify the department that filled by and add a prior confirmation item for a requalification of parts or design change.		
Points to be checked	Conflict with delivery specification, etc		Yes / No →→ If Yes, specify the date of submission: _____		
	Attachment of quality verification data		Yes / No Expected date of submitting sample: _____		
Effect	Supporting documents that can prove that there is no issue caused by the change.				
Internal notice for circulation	Procurement Section In Charge	Manager	Quality Assurance Dept. In Charge	Manager	Preferred date of return
	Urgency Urgent Normal		Please Circle one. →		
Determination of Quality Assurance Dept.	Yes	Yes with some conditions	No	[Article] Add an expected completion date of a design verification or a requalification of parts. ● Be sure to clarify the due dates by discussing with the Design Dept. and Quality Assurance Dept. to determine the date of replacement for the modified product.	
	(1) Quality related issue (2) Replacement of delivery spec *3 copies (3) Requalification of parts (4) Needs additional reliability data		Yes / No Required / Not Required Required / Not Required Required / Not Required		(5) Change (6) Change (7) Hazardous (8) Non-hazardous
*Action(s) to be taken and due date	<Internal>	(1) Issuance of a design change (2) Issuance of parts certifier (3) Price change		(4) Expected completion date or design verification: Due date (5) Expected completion date for requalification: Due date (6) Other	
	<Supplier>	(1) Replacement category: Mandatory : Voluntary (2) Replacement control #: _____ Or, replacement implementation date: _____ (3) Mixed use of lot: Possible / Not Possible		(4) Submission of delivery spec *3 copies: Due date (5) Submission of Hazardous Chemical Substances Inclusion Survey or Non-Inclusion Certificate: Due date (6) Sample for design verification: No. of pieces : Due date (7) Sample for parts verification: No. of pieces : Due date	
	<Message to a supplier>	Be sure to clarify the due date based on the determination given by the Quality Assurance Dept. ● Set up (plan) a due date of each item corresponding to the design verification and parts certification and provide direction to the company submitting this application.		Add instructions for the category of shaded sections that should be completed by the company submitting this application.	
				Return date of the application Date: _____ Procurement Section In charge: _____ Manager: _____	

Sections marked with * are filled by the Procurement Section. Shaded sections are filled by the company submitting this form. Sections enclosed with a double line are filled by the quality assurance dept.

Style V-009-11

- Provide special instructions of the replacement to the company submitting this application. <Examples>
 - Accept changes at the completion of processing the item that falls under "Required" for the determination A.
 - Replacement of a modified product depends on the result of "requalification of parts". Expected date of determination: _____
 - Replacement of a modified product depends on the result of design verification to be completed by _____
 - Replacement of a modified product is accepted upon the approval of delivery spec.
 - New EDP # shall be referred to a purchase order submitted by your company.
 - Replacement of a modified product must start with the control number _____.
 - Change is acceptable, provided that the details of replacement should be based on the meeting minutes dated: _____.
- (Attach the meeting minutes with the Application for Change of Production Condition of Purchased Product)

To: Nakayo Telecommunications, Inc.

Non-Use Certificate of Prohibited Substance

Date : _____

Company name : _____

Signature of person in charge : _____

Regarding the products in the following products list: we guarantee the followings.

Prohibited chemicals shown Table-1 aren't used intentionally. And the content (impurities) is below the threshold value which is specified by law(RoHS etc) in Table-1.

In the case that the exemptions prescribed by RoHS, we show those exemptions in products list without guarantee but we guarantee that the exemption is applicable.

Products list

*Attach a list if the space is insufficient

No.	Supplier's product (part) number	Nakayo product (EDP) number	Nakayo product (part) name	Manufacturing plant	Exemption (*1)		
					Existence	JGPSSI Substance group No.-The use which becomes exemption	Part

(*1)When application of the prohibited substance, you use correspond to the RoHS exclusion item, be sure to fill in the "existence", "JGPSSI substance group No. -The use which becomes exemption" in the ANNEX 3 and make it clear which "part" it is used in. (Example: Lead in the high melting temp. type solder=A09-1)

Table-1 Prohibited chemicals

No.	Prohibited material	Law thresholds	No.	Prohibited material	Law thresholds
1	Cadmium and Cadmium Compounds	100ppm AND Intentional use prohibited	7	Tributyl Tin Oxide (TBTO)	Intentional use prohibited
			8	Tributyl Tins (TBTs) Triphenyl Tins (TPTs)	Intentional use prohibited
2	Hexavalent Chromium Compounds	1000ppm AND Intentional use prohibited	9	Polychlorinated Biphenyls (PCBs)	Intentional use prohibited
3	Lead and Lead Compounds	1000ppm AND Intentional use prohibited	10	Polychloronapthalenes (Cl=>3)	Intentional use prohibited
	Lead and Lead Compounds (wiring only) ¹	300ppm AND Intentional use prohibited	11	Short Chain Chlorinated Paraffins	Intentional use prohibited
4	Mercury and Mercury Compounds	1000ppm AND Intentional use prohibited	12	Asbestos	Intentional use prohibited
1 ~ 4	Lead, Cadmium, Mercury, Hexavalent Chromium (package and wrapping only) ²	Total 100ppm AND Intentional use prohibited	13	Azo Colorants	Intentional use prohibited
5	Polybrominated Biphenyls (PBBs)	1000ppm AND Intentional use prohibited	14	Ozone Depleting Substances	Intentional use prohibited
6	Polybrominated Diphenyl ethers (PBDEs)	1000ppm AND Intentional use prohibited	15	Radioactive Substances	Prohibited

*1: Apply to only wiring and cable.

*2: Apply to the sum of lead, cadmium, mercury and the hexavalent chromium included in the package and wrapping of the products.

*3: Battery is based on EU Battery Directive 2006/66/EC. Threshold of Cadmium is 20ppm. Threshold of Mercury in a button cell is 2%,and in another type of battery is 5ppm. The denominator for concentration calculation is a "total weight of a battery".

Contact details: depart. _____ name _____
 phone _____ e-mail _____

Figure 2

【 Applications exempted from the prohibition in Article 4(1)】

JGPSSI Code	WTO-TBT	Exemption	scope and dates of applicability
Hg-R-6	1	Mercury in single capped (compact)fluorescent lamps not exceeding(per burner):	
	1(a)	For general lighting purposes <30 W: 5 mg	Expires on 31 December 2011; 3,5 mg may be used per burner after 31 December 2011 until 31 December 2012; 2,5 mg shall be used per burner after 31 December 2012
	1(b)	For general lighting purposes ≥ 30 W and (50 W: 5 mg	Expires on 31 December 2011; 3,5 mg may be used per burner after 31 December 2011
	1(c)	For general lighting purposes ≥ 50 W and ≤ 150 W: 5 mg	
	1(d)	For general lighting purposes ≥ 150 W: 15 mg	
	1(e)	For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm	No limitation of use until 31 December 2011; 7 mg may be used per burner after 31 December 2011
	1(f)	For special purposes: 5 mg	
Hg-R-7	2(a)	Mercury in double-capped linear fluorescent lamps for general lighting Purposes not exceeding (per lamp):	
	2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter > 9 mm (e.g. T2):5 mg	Expires on 31 December 2011; 4 mg may be used per lamp after 31 December 2011
	2(a)(2)	Tri-band phosphor with normal lifetim and a tube diameter ≥ 9 mm and ≥ 17 mm(e.g. T5):5mg	Expires on 31 December 2011; 3 mg may be used per lamp after 31 December 2011
	2(a)(3)	Tri-band phosphor with normal lifetim and a tube diameter ≥ 17 mm and ≤ 28 mm (e.g. T8): 5mg	Expires on 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011
	2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg	Expires on 31 December 2012; 3,5 mg may be used per lamp after 31 December 2012
	2(a)(5)	Tri-band phosphor with long lifetime ($\geq 25\ 000$ h): 8 mg	Expires on 31 December 2011; 5 mg may be used per lamp after 31 December 2011
Hg-R-8	2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):	
	2(b)(1)	Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg	Expires on 13 April 2012
	2(b)(2)	Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
	2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
	2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
Hg-R-9	3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):	
	3(a)	Short length (≥ 500 mm)	No limitation of use until 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011
	3(b)	Medium length (> 500 mm and $< 1\ 500$ mm)	No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011
	3(c)	Long length ($> 1\ 500$ mm)	No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011
Hg-R-10	4(a)	Mercury in other low pressure discharge lamps (per lamp)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
Hg-R-11	4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60 :	
	4(b)-I	P<155 W	No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011
	4(b)-II	155 W <P<405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011
	4(b)-III	P>405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011

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Hg-R-12	4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):	
	4(c)-I	P<155 W	No limitation of use until 31 December 2011; 25 mg may be used per burner after 31 December 2011
	4(c)-II	155 W <P<405 W	No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011
	4(c)-III	P>405 W	No limitation of use until 31 December 2011; 40 mg may be used Per burner after 31 December 2011
Hg-R-13	4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015
Hg-R-14	4(e)	Mercury in metal halide lamps (MH)	
Hg-R-15	4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	
Pb-RE-5	5(a)	Lead in glass of cathode ray tubes	
Pb-RE-6	5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	
Pb-RE-4	6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight	
Pb-R-1	6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	
Pb-RE-4	6(c)	Copper alloy containing up to 4 % lead by weight	
Pb-R-2	7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	
Pb-R-3	7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	
Pb-RE-7	7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound	
Pb-RE-8	7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	
Pb-RE-9	7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
Cd-R-7	8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
Cd-R-8	8(b)	Cadmium and its compounds in electrical contacts	
Cr-R-2	9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	
Pb-R-32	9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	
Pb-RE-6	11(b)	Lead used in other than C-press compliant pin connector systems	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
Pb-R-30	13(a)	Lead in white glasses used for optical applications	
Cd-R-9	13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards	
Pb-R-7	14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight	Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011
Pb-R-8	15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	
Pb-R-10	16	Lead in linear incandescent lamps with silicate coated tubes	Expires on 1 September 2013
Pb-R-11	17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	
Pb-R-33	18(b)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi 2 O 5 :Pb)	

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Cd-R-3	21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	
Pb-R-15			
Pb-R-17	23	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	May be used in spare parts for EEE placed on the market before 24 September 2010
Pb-R-18	24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	
Pb-R-35	25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	
Pb-R-22	29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (1)	
Cd-R-4	30	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	
Pb-R-23	31	Lead in soldering materials in mercury free flat fluorescent lamps (which e. g. are used for liquid crystal displays, design or industrial lighting)	
Pb-R-24	32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	
Pb-R-25	33	Lead in solders for the soldering of thin copper wires of 100 μm diameter and less in power transformers	
Pb-R-26	34	Lead in cermet-based trimmer potentiometer elements	
Pb-R-27	37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	
Cd-R-6	38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	
Cd-R-10	39	Cadmium in colour converting II-VI LEDs (< 10 μg Cd per mm ² of light-emitting area) for use in solid state illumination or display systems	Expires on 1 July 2014

