



**JCM Group**  
**GREEN PROCUREMENT GUIDELINE**  
**(Information for Our Customers – JCM**  
**Guideline for Management of Chemical**  
**Substances)**



**November 26, 2024 11<sup>th</sup> Edition**

**Japan Cash Machine Co., Ltd.**  
**Quality Department**

## Revision History

	Revision No.	Date and year of revision	Reason for revision
First Ed.	Rev. 01	Oct. 23, 2009	
	Rev. 02	Jan. 25, 2010	Addition of document ID (front cover) [JQE04-332] <ul style="list-style-type: none"> <li>• Change of “banned substance level C” to “controlled substance”</li> <li>• Clarification of applicability of the document to JCM brand (money handling machines)</li> <li>• In the non-use statement, change of “To: JCM Group” to “To: JCM”</li> </ul>
	Rev. 03	Mar. 3, 2010	Revision for posting the green procurement guideline on the JCM’s website
	Rev. 04	Jan. 20, 2011	<ul style="list-style-type: none"> <li>• Addition of substances of very high concern (SVHC) under REACH regulation (15 substances → 38 substances)</li> <li>• Withdrawal of statement of compliance of reportable substances contained</li> <li>• Change of drafting department</li> </ul>
	Rev. 05	Mar. 21, 2012	<ul style="list-style-type: none"> <li>• Abolishment of statement for non-use of banned substances in supplies</li> <li>• Change of the term “components/parts survey table” to “report/statement of chemical substances contained” and “report/statement of inclusion of substance of very high concern”</li> <li>• Alteration to where to submit data and person in charge of inquiries</li> <li>• Addition of substances of very high concern (SVHC) under REACH regulation (38 substances → 73 substances)</li> </ul>
	Rev. 06	Nov. 4, 2014	<ul style="list-style-type: none"> <li>• Change of the department in charge of preparation of the Guideline from Production Department to Quality Control Department.</li> <li>• Addition of the following contents to 3.2 Scope of application: Scope of application to equipment and tools                [1] Equipment and tools that come in direct contact with products during the processes from assembly to final examination for prevention of contamination.</li> <li>• Submission procedure Change of the persons to whom the documents are submitted, from Miyamoto and Tabuchi (Standard Promotion Group, Production Department) to Miyamoto and Tsuka (Information Management Group, Quality Control Department).</li> <li>• Addition of survey item “information about the outcome of the green procurement initiatives” to Vendor/supplier environmental survey report.</li> <li>• Addition of substances of very high concern (SVHC) under REACH regulation (73 substances → 155 substances)</li> </ul>
	Rev. 07	Jul. 15, 2015	<ul style="list-style-type: none"> <li>• Compliance with RoHS2 (Revised RoHS)</li> <li>• Table 2-3 Change of exceptions table (RoHS)</li> <li>• Addition of substances of very high concern (SVHC) under REACH regulations (155 substances → 163 substances)</li> </ul>

## Revision History

Revision No.	Date and year of revision	Reason for revision
Rev. 08	Aug. 9, 2017	<ul style="list-style-type: none"> <li>• Change of Environmental policy</li> </ul>
Rev. 09	June. 26, 2018	<ul style="list-style-type: none"> <li>• Change of the description of “Environmental Protection Efforts of JCM Group” (Page 2) to “Refer to JCM’s website”</li> <li>• Addition of information on “chemSHERPA” (Page 10)</li> <li>• Addition of “Substances of Very High Concern” (SVHC) under REACH regulation (163 substances → 181 substances)</li> </ul>
Rev. 10	April 1, 2023	<ul style="list-style-type: none"> <li>• Obsolete JIG standard was replaced with IEC standard.</li> <li>• Changed submission procedure.</li> <li>• Deleted the section of chemSHERPA.</li> <li>• Deleted company seal from the reporting format.</li> <li>• List of substances of very high concern (SVHC) was replaced with a link to the ECHA website.</li> <li>• Corrected clerical errors.</li> </ul>
Rev. 11	November 26, 2024	<ul style="list-style-type: none"> <li>• Abolished Vendor/supplier environmental survey report.</li> <li>• Changed submission procedure for Report/statement of inclusion of substances of very high concern</li> </ul>

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# Chapter 1 General

## 1. Introduction

In accordance with our established environmental philosophy and environmental policy, JCM Group has been committed to business activities aiming at conservation of the global environment and formation of a recycling-oriented society. We are currently promoting “realization of eco-friendly products” as a part of the most urgent challenges in our environmental conservation activities. However, to realize this, we have to mitigate environmental impacts from parts and materials that constitute our products. To this end, we need to achieve mitigation of environmental impacts during the following three processes:

- (1) During production of the components of our products and equipment,
- (2) During selection of packaging materials for our products, and
- (3) During use and operation of our products at our customers' sites.

Recently, much stricter laws and regulations (RoHS Directive, REACH regulation, and other relevant regulations) intended to control hazardous chemical substances possibly contained in products have been increasingly introduced in nations around the world. To be able to realize green products that have the least impact on the environment, we must remain in close cooperation with our vendors and suppliers. We reorganized and developed this “JCM Group Green Procurement Guideline” with the desire of retaining the cooperation of our vendors and suppliers.

Our vendors and suppliers are requested to become familiar with the principle described in this guideline and remain cooperative so that both they and JCM remain committed to business management aimed at conservation of the global environment.

## 2. Environmental Protection Efforts of JCM Group 9

Refer to the following URL for the Quality/Environmental Concept and Policies of JCM Group.  
<http://www.jcm-hq.co.jp/corporate/csr/index.html>

### 3. Green Procurement Guideline

#### 3.1 Objective

This guideline is intended to clearly convey our green procurement standard (our guideline for management of hazardous substances possibly contained in our products) to our customers and to help mitigate environmental impacts possibly caused by our products in general.

Stricter laws and regulations have been introduced around the world recently, to regulate the use of chemical substances in products. Examples of such laws and regulations include RoHS Directive, REACH regulation, and PFOS regulation of the EU. In response, JCM Group intends to strictly observe the applicable laws and regulations, including domestic and foreign laws and regulations that regulate substances contained in raw materials, parts and units that constitute the product. In this context, we will clarify the status of chemical substances contained in our products – total ban or statement of use – and will disclose the relevant information to our customers. We will thus realize eco-friendly products.

#### 3.2 Scope 2

Even when a particular substance or application is not defined in this guideline, if the use of that substance is banned under a law or regulation in any country or region, the readers are requested to comply with the currently effective law or regulation.

##### 1) Scope of application to products

This guideline shall apply to all the JCM brand products (money handling machines).

##### 2) Scope applicable to components and parts, raw materials and units, etc.

(1) Product main body and components, as well as raw materials used therefor

(2) Packaging materials and parts for JCM products

(3) Instruction manuals

(4) Service parts

(5) Consumables including grease, adhesives, double-sided adhesive tape, and packing adhesive tape

##### 3) Scope of application to production processes

(1) Ban on use of ozone-depleting substances and organic chlorine-based solvents

##### 4) Scope of application to equipment and tools 6

(1) Equipment and tools that come in direct contact with products during the processes from assembly to final examination for prevention of contamination.

#### 3.3 Definitions 4

##### 3.3.1 Inclusion

A state where a substance is added to, mixed into or attached to, either intentionally or unintentionally, a component, part or unit that constitutes the product or a raw material used therefor. This concept includes a case where a substance is unintentionally mixed into or attached to the product in the manufacturing process. Also, this concept means the situation where such a substance finally remains on the product.

##### 3.3.2 Content

The concentration of a chemical substance, which is represented by the unit of [ppm] (mass ratio 1 ppm: one millionth), or [wt%] (mass ratio, 1 wt%: one millionth), etc.

### 3.3.3 Impurities

Impurities are substances contained in natural raw materials, which cannot be removed from natural raw materials as industrial materials owing to a technical reason in the purification process; or substances that occur in the purification process or synthesizing process and cannot be removed owing to a technical reason.

The permissible concentration of a chemical substance specified in this Green Procurement Guideline must not be exceeded even when the chemical substance is an impurity.

### 3.3.4 Permissible concentration (threshold level)

Permissible concentration means the maximum permissible concentration of a banned chemical substance contained in a component or part.

A case where the permissible concentration is exceeded is regarded as “inclusion”.

### 3.3.5 Articles

Objects to which specific shapes, appearance or designs that determine the functions of their final uses are given, during production, to a degree greater than that given by the chemical composition.

Ex., Screws, resin articles, resistors, capacitors, power source units, PCs, etc.

### 3.3.6 Preparations

Mixtures or solutions composed of two or more substances

Ex., Coating compositions, inks, unused solder, adhesives, metal alloys, etc.

### 3.3.7 Substances

Simple substances and compounds that occur naturally or are obtained by manufacturing steps.

Ex., Lead oxide, nickel chloride, benzene, etc.

### 3.3.8 Homogeneous materials

Materials which cannot be disassembled mechanically into different materials (whose composition shall be homogeneous throughout).

Ex., Plastics, ceramics, glass, metals, plating

Disassembled mechanically: The ability of a material to be basically separated by mechanical operations such as the following:

Unscrewing, grinding, cutting, breaking, pulverization, etc.

## 3.4 Selection criteria 11

To qualify a new vendor or supplier, we use environmental factors in addition to the conventional selection criteria that include quality, lead time and price, as evaluation indexes for a qualified vendor or supplier.

(1) Active commitment to environmental protection activities

(2) Status of use of chemical substances in supplies to JCM, and chemical substances reduction policy 5

A prospective vendor or supplier is required to submit to JCM a completed report/statement of chemical substances contained whenever requested in order for the prospective vendor or supplier to guarantee strict compliance with JCM's green procurement standard.

The statement to be submitted must be approved in advance by the representative of the prospective vendor or supplier.

However, non-submission of this statement will not indemnify the prospective vendor

or supplier against warranty against defectiveness of its supplies.

3.5 Documents to be submitted, and data updating 11

- (1) Receipt of the JCM Group Green Procurement Guideline (material number: QA04-40A) 5

When the prospective vendor/supplier receives the JCM Group Green Procurement Guideline, the vendor/supplier is required to submit a receipt note for the guideline. When the green procurement guideline is revised and entered on the JCM website, the prospective vendor/supplier is also required to submit the receipt note.

3.6 Submission procedure 7 10

Please submit the documents via e-mail.

Submit to: Purchasing Department

3.7 For more information 7 10

Please contact Quality Department for more information regarding the documents being submitted:

3.8 JCM's website 3

The Green Procurement Guideline is posted on JCM's website.

URL: <http://www.jcm-hq.co.jp/>

To: JCM Group

Material number: QA04-40A

## **Receipt of JCM Group Green Procurement Guideline**

We acknowledge the receipt of the document described below and submit a receipt note for the document.

We agree to responsibly dispose of the old version of the document to prevent it from being erroneously used.

1. Name of document

JCM Group Green Procurement Guideline

2. Version number of document

Version No.

3. Date of receipt

Month Day, Year

4. Company name

\_\_\_\_\_

5. Department

\_\_\_\_\_

6. Name of person in charge

\_\_\_\_\_ Seal

End of document

# Chapter 2 Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances; Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof; RoHS Directive and PFOS

## 1. Definitions

### 1.1 Banned substances

#### [1] Banned substances Level A 4

These comprise the nine chemical substances listed in Table 2-1, whose use in the components and constituents of our products is banned. Major laws and regulations relevant to chemical substances are listed in Table 2-4.

#### [2] Banned substances Level B 7

These comprise the eleven chemical substances listed in Table 2-1, whose use in the components and constituents of our products in excess of the maximum permissible amount is banned. (Use of these substances is banned by RoHS Directive and PFOS regulation.) Major laws and regulations relevant to chemical substances are listed in Table 2-4.

RoHS2 (Revised RoHS: RoHS Directive (2011/65/EU)

Changes from RoHS Directive (2002/95/EC):

- (1) Addition of Category 8 (Medical devices), Category 9 (Monitoring and control instruments) and Category 11 (All other electrical and electronic equipment that does not fall under Categories 1-10 is subject to the regulation)
- (2) Effective date:  
Categories 8 and 9: July 22, 2017  
Category 11: July 22, 2019
- (3) Affixation of CE marking as Declaration of Conformity
- (4) Addition of four phthalic acid-based substances to banned substances (Shown in Table 2-1)

#### [3] Controlled substances 5

These comprise the nine chemical substances listed in Table 2-2, whose use in the components and constituents of our products in excess of 1000 ppm in the total mass of the delivered product needs to be investigated and monitored.

### 1.2 Exceptions 7

If used for applications and at concentrations allowed under RoHS Directive, such chemical substances shall be exempted even if their permissible concentrations (threshold value) are specified. (Examples of exempt applications are shown in Table 2-3.)

For examples of uses for chemical substances and major relevant laws and regulations, please refer to Tables 2-4 and 2-5. Please feel free to contact one of the manufacturing representatives.

## 2. Execution of Green Procurement (Law Concerning Examination and Regulation of Manufacture, etc. of Chemical Substances; Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof; RoHS Directive and PFOS regulation)

2.1 In conducting our green procurement activities, we will strictly observe the JCM Group Green Procurement Guideline to manage chemical substances possibly contained in our products.

2.2 Documents to be submitted, and updating of data 10

(1) Report/statement of chemical substances contained (material number: QA04-42C)  
Please conduct parts investigation of raw materials, parts, units, etc. which are currently being supplied to JCM Group, and submit a report/statement of the chemical substances contained.

Please fill out the report/statement of chemical substances contained as follows:

[1] The reference number on the title column on the upper right hand will be filled out by JCM Group. Please write the company name, date of filling out, name of department, name of the person entering the data, name of the person in charge, email address of the person in charge, name of the responsible person, email address of the responsible person, telephone number and fax number.

[2] The item numbers and model numbers in the tables will be filled out by JCM Group. As for other items, please conduct components investigation on their raw materials, parts, units, etc., and enter the results. (symbols used—acceptable: ○, exception: ⊙, within the inclusion threshold: ●, unacceptable: ×)

If other than acceptable, please write inside the column the numerical value of the amount contained. (unit: ppm) If there is any inclusion of substances used in the exempt applications under the RoHS Directive, register it in the remarks column along with the exemption number described in the official journal of the RoHS Directive.

[3] When the report/statement is filled out, submit the document to JCM Group. The scale for evaluation of the parts investigation shall be based on the latest version of the JCM Group Green Procurement Scale (described in Tables 2-1 to 2-5).

In case of any revision in the Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof, or RoHS Directive, or application of equivalent product, please submit the report/statement of the chemical substances contained.

2.3 How to submit 5

Please refer to Paragraph 3.6 in Chapter 1-General.

2.4 For more information 5

Please refer to Paragraph 3.7 in Chapter 1-General.



Table 2-1 Banned substances (Level A and Level B) 7 10

Category	Chemical substance	Threshold level	Example legal regulation
Banned substances Level A (9 groups)	• Tributyltin oxide (TBTO)	Intentional addition 0 ppm	IEC 62474
	• Tributyltin (TBT), triphenyltin (TPT)	Intentional addition 0 ppm	IEC 62474
	• Polychlorinated biphenyls (PCBs)	Intentional addition 0 ppm	IEC 62474
	• Polychloronaphthalene (having two or more chlorine atoms)	Intentional addition 0 ppm	IEC 62474
	• Certain short-chain chlorinated paraffin	Intentional addition 0 ppm	IEC 62474
	• Asbestos	Intentional addition 0 ppm	IEC 62474
	• Certain azo dyes, pigments	Intentional addition 0 ppm	IEC 62474
	• Ozone-depleting substances (CFCs, HCFCs, HBFs, carbon tetrachlorides)	Intentional addition 0 ppm	IEC 62474
	• Radioactive substances	1 MBq	IEC 62474
Banned substances Level B (11 groups)	• Cadmium and cadmium compounds	100 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Hexavalent chromium and hexavalent chromium compounds	1000 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Lead and lead compounds	1000 ppm Vinyl chloride cable only 300 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Mercury and mercury compounds	1000 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Polybrominated biphenyls (PBBs)	1000 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Polybrominated diphenyl ethers (PBDEs) Containing Deca-BDE for polymer application	1000 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Di-2-ethylhexyl phthalate (DEHP)	1000 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Butyl benzyl phthalate (BBP)	1000 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Di-n-butyl phthalate (DBP)	1000 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• Diisobutyl phthalate (DIBP)	1000 ppm Intentional addition 0 ppm	IEC 62474 RoHS Directive
	• PFOS and PFOS analogous compounds	1000 ppm Fabric and coated products: 1 µg/m <sup>2</sup> Substance and preparation: 50 ppm Intentional addition 0 ppm	POPs Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances-

Note: The supply needs to satisfy all the inclusion threshold levels described above.

The content of a substance having a threshold level with a numerical value established thereto is calculated as follows:

- In this item, the denominator used in calculation of the content of non-HCFCs shall be the mass of the homogeneous material.
- The denominator of HCFCs shall be the total mass of the supply.
- In the case of a complex substance or material, any of the following substances shall be used as a homogeneous material.
  - » Compounds, polymer alloys, metal alloys, etc.
  - » As for raw materials such as coating compositions, adhesives, ink, paste, resin polymers, glass powder and ceramic powder, forms which are finally formed depending on expected usage of the substance. Ex.) Coating compositions and adhesives: the state after being dried and cured. Resin polymers: the state after being formed.  
The formed state of glass and ceramics.
  - » A single-layer of painting, printing, plating, etc. In the case of a multi-layer structure, the state of each single-layer.
- The numerator for calculating the content shall be the mass of the target chemical substance of calculation. However, in the case of a metal compound, only the mass of the target metal component is used as the numerator.

Table 2-2 Controlled substances contained 4 10

Category	Chemical substance	Target conditions	Example legal regulation
Controlled substances (9 groups)	• Antimony and antimony compounds	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474
	• Arsenic and arsenic compounds	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474
	• Beryllium and beryllium compounds	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474
	• Bismuth and bismuth compounds	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474
	• Bromine-based flame retardants (other than PBBs and PBDEs)	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474
	• Nickel (external use only)	The content in the total mass of the delivered product exceeds 1000 ppm *1	IEC 62474
	• Certain phthalate esters	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474
	• Selenium and selenium compounds	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474
	• Polyvinyl chloride (PVC)	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474

\*1: Only nickel used at a site which may come into direct contact with the human skin for a long period of time is to be the target of control.

[Note about Table 2-2]

When any of the chemical substances listed in Table 3 is contained in a delivered product, it is necessary to know if such containment is applicable to the “Target conditions”, and record and manage the mass, application, site contained and other conditions of the target substance when applicable.

The threshold levels of the controlled substances shall be the content (ppm) relative to the mass of the applicable item (product/parts).

In calculating the content, the denominator for calculating the content shall be the total mass of the delivered product.

The numerator for calculating the content shall be that of the target chemical substance of calculation. However, in the case of a metal compound, only the mass of the target metal component is used as the numerator.

Table 2-3 Substance-Specific Exceptions Table (typical) 7

Substance	Exemption number	Exempt application
Lead and lead compounds	5(b)	Lead in glass of fluorescent tubes not exceeding 0.2% by weight
	6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight
	6(b)	Lead as an alloying element in aluminium containing up to 0.4% lead by weight
	6(c)	Copper alloy containing up to 4% lead by weight as an alloying element
	7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)
	7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
	7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
	7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher
	13(a)	Lead in white glasses used for optical applications
	13(b)	Lead in filter glasses and glasses used for reflectance standards
	15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages
Cadmium and cadmium compounds	8(b)	Cadmium and its compounds in electrical contacts
Mercury and mercury compounds	3(a)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): Short length ( $\leq 500$ mm)
	3(b)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): Medium length ( $> 500$ mm and $\leq 1,500$ mm)
	3(c)	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp): Long length ( $> 1,500$ mm)
PFOS/PFOS analogous compounds	-	<ul style="list-style-type: none"> <li>• Photoresist for photolithography process or antireflection coating agent</li> <li>• Photographic coating agent used for film, paper, printing plates</li> </ul>

\* Exceptional applications will be reviewed at any time depending on future trends in legal regulations.

Table 2-4 Major laws and regulations relevant to chemical substances 7

Chemical substance *1	Major relevant laws and regulations
Tributyltin oxide (TBTO)	Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Class I Specified Chemical Substances)
Tributyltin (TBT), triphenyltin (TPT)	Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Class II Specified Chemical Substances)
Polychlorinated biphenyls (PCBs)	Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Class I Specified Chemical Substances), 76/769/EEC
Polychloronaphthalene (having two or more chlorine atoms)	Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances (Class I Specified Chemical Substances)
Certain short-chain chlorinated paraffin	76/769/EEC (+2002/45/EC)
Asbestos	76/769/EEC (+91/659/EEC)
Certain azo dyes and pigments	76/769/EEC (+2002/61/EC, +2003/3/EC)
Ozone-depleting substances	Law concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures Montreal Protocol on Substances that Deplete the Ozone Layer United States 1990 Clean Air Act, Article 611 76/769/EEC (+94/60/EEC, +97/64/EEC)
Radioactive substances	Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors
Cadmium and cadmium compounds	Denmark Statutory Order No. 1169 of December 23, 1992 on the Prohibition of Sale, Import, and Manufacture of Cadmium-Containing Products 76/769/EEC (+91/338/EEC) 91/157/EEC, 93/86/EEC 2000/53/EC (EU/ELV), 2011/65/EU (RoHS) 94/62/EC United States Regulations on Heavy Metals in Packaging
Hexavalent chromium and hexavalent chromium compounds	2000/53/EC (EU/ELV), 2011/65/EU (RoHS) 94/62/EC United States Regulations on Heavy Metals in Packaging
Lead and lead compounds	76/769/EEC (+86/677/EEC) 91/157/EEC, 93/86/EEC 2000/53/EC (EU/ELV), 2011/65/EU (RoHS) 94/62/EC United States Regulations on Heavy Metals in Packaging
Mercury and mercury compounds	76/769/EEC 91/157/EEC (+98/101/EC) 2000/53/EC (EU/ELV), 2011/65/EU (RoHS) 94/62/EC United States Regulations on Heavy Metals in Packaging
Polybrominated biphenyls (PBBs)	2011/65/EU (RoHS) (Germany Dioxin Legislation)
Polybrominated diphenyl ethers (PBDEs)	2011/65/EU (RoHS) 76/769/EEC (+2003/11/EC) (Germany Dioxin Legislation)
Di-2-ethylhexyl phthalate (DEHP) Butyl benzyl phthalate (BBP) Di-n-butyl phthalate (DBP)	REACH Regulations (EC) No 1907/2006 2005/84/EC 2011/65/EU (RoHS)
Diisobutyl phthalate (DIBP)	2011/65/EU (RoHS)
Lapse of Deca-BDE exemption	European RoHS Directive Lapse of PBDE exception "Deca-BDE for polymer application"
PFOS and PFOS analogous compounds	2008/76/769/EEC

Table 2-5 Chemical substance control list 710

Note: Any other substances which are designated under treaties, laws, ordinances and industrial guidelines must be controlled according to these regulations even though they are not listed here.

Category		Chemical substance	Basis
Banned substance	Banned substances Level A (9 groups)	Tributyltin oxide (TBTO)	[1]
		Tributyltin (TBT), triphenyltin (TPT)	[1]
		Polychlorinated biphenyls (PCBs)	[1]
		Polychloronaphthalene (having two or more chlorine atoms)	[1]
		Certain short-chain chlorinated paraffin *2	[1]
		Asbestos	[1]
		Certain azo dyes, pigments *3	[1]
		Ozone-depleting substances *4	[1]
		Radioactive substances	[1]
	Banned substances Level B (11 groups)	Cadmium and cadmium compounds	[2]
		Hexavalent chromium and hexavalent chromium compounds	[2]
		Lead and lead compounds	[2]
		Mercury and mercury compounds	[2]
		Polybrominated biphenyls (PBBs)	[2]
		Polybrominated diphenyl ethers (PBDEs)	[2]
		Di-2-ethylhexyl phthalate (DEHP)	[2]
		Butyl benzyl phthalate (BBP)	[2]
		Di-n-butyl phthalate (DBP)	[2]
		Diisobutyl phthalate (DIBP)	[2]
		PFOS and PFOS analogous compounds	[2]
Controlled substances (9 groups)	Antimony and antimony compounds	[3], [4]	
	Arsenic and arsenic compounds	[3]	
	Beryllium and beryllium compounds	[3], [4]	
	Bismuth and bismuth compounds	[5]	
	Bromine-based flame retardants (other than PBBs and PBDEs)	[5]	
	Nickel (externally used only)	[3]	
	Certain phthalate esters	[3]	
	Selenium and selenium compounds	[3], [4]	
	Polyvinyl chloride (PVC)	[3], [4]	

\*1 Carbon chain length: applicable to C10–C13 short-chain chlorine paraffin

\*2 Azo dyes and pigments which form specified amines, whose targets of application are limited to sites which come into direct contact with the skin for a long period of time.  
(specified amines denote the amine compounds referenced in 76/769/EEC, the 19th amendment directive)

\*3 These shall be substances applicable to Montreal Protocol on Substances that Deplete the Ozone Layer. Class II substances are included in the targets of investigation.

● Basis for selecting the substances

- (1) Substances whose usage and sale are prohibited by legal regulation.
- (2) Substances whose usage and sale are limited by legal regulation.
- (3) Substances which impact the environment, health, safety and hygiene.
- (4) Substances which are applicable to requirements of legal regulation relevant to harmful waste.
- (5) Substances which may have negative impact in controlling the environment.

● References

1. National Institute of Technology and Evaluation  
NITE Chemical Risk Information Platform: [https://www.nite.go.jp/chem/chrip/chrip\\_search/systemTop](https://www.nite.go.jp/chem/chrip/chrip_search/systemTop)

# Chapter 3 REACH Regulation

## 1. Definitions

### 1.1 Reportable substance 710

Substances of very high concern (SVHCs) declared according to REACH regulation by European Chemicals Agency (ECHA).

Refer to the following ECHA website for Candidate List of SVHCs.

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

Registration with and submission of report to ECHA are needed if any of these substances is present in our product in excess of its maximum allowable amount (0.1 wt% or higher of a formed article).

## 2. Execution of Green Procurement (REACH regulation)

2.1 In conducting our green procurement activities, we will strictly follow the JCM Group Green Procurement Guideline to manage chemical substances possibly contained in our products.

### 2.2 Documents to be submitted, and updating of data 51011

(1) Report/statement of inclusion of substances of very high concern (material number: QA04-44B)

We request submission of a report/statement of inclusion of substances of very high concern for each of the raw materials, parts, units, etc. supplied to JCM group if REACH substances of very high concern (SVHC) are contained in amounts higher than 0.1 wt% relative to the weight of the supplied part or material as a parameter. The instruction for filling out the report/statement of inclusion of substances of very high concern is as follows:

[1] The reference number on the title column on the upper right hand will be filled out by JCM Group.

Please write the date of filling out, company name, address, telephone number, job title/position, and the signature of the head of the department in charge.

[2] Please write and report the information of inclusion of substances of very high concern in the table and according to the sample writing provided.

[3] When the report/statement is filled out, submit the document to JCM Group.

When any revision to REACH regulations has occurred or an equivalent product application has been made, please submit the document.

### 2.3 Submission procedure 5

Please refer to Paragraph 3.6 in Chapter 1-General.

To: JCM Group

Material number: QA04-44B

**Report/statement of inclusion of substances of very high concern (REACH regulation) 5 10**

Management number: \_\_\_\_\_  
 Date of filling out: \_\_\_\_\_  
 Company name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_  
 Title/position: \_\_\_\_\_  
 Signature of the head of the department in charge: \_\_\_\_\_ Seal

We disclose and report the information of inclusion of substances of very high concern in the raw materials, parts, units, etc. that we supply to JCM Group currently and also the raw materials, parts, units, etc. that we will supply in the future, since REACH substances of very high concern (SVHC) listed in Table 3-1 are contained in amounts higher than 0.1 wt% relative to the parameter of the weight of the supplied parts and materials. We write and report "no inclusion" when the content is 0 wt% to 0.1 wt%.

Information listing for inclusion of substances of very high concern related to supplied parts

No.	Applicable parts				The information of inclusion of substances of very high concern					
	Name	JCM item number	Manufacturer's model number / manufacturer's name	Unit weight [g] of supplied parts and materials	Substance of very high concern contained (*1)	CAS No. (*2)	Content [wt%] (*3)	Amount contained [mg] (*4)	Site where contained	Remarks (*5)

[Sample writing]

Example 1	Capacitor	000001	AAA-BB (xxx Corporation)		No inclusion					
Example 2	Cable	000002	CCC-DD (xxx Corporation)	150 g	Bis phthalate	117-81-7	2 wt%	3000 mg	Cable coating	Investigation unit is 1 m.
					Musk xylene	81-15-2	5 wt%	7500 mg	Cable coating	Investigation unit is 1 m.

(\*1): When substances of very high concern (SVHC) are contained in amounts higher than 0.1 wt% relative to the parameter of the weights of supplied parts and materials, please specify the substances of very high concern (SVHC) contained. When no substance is contained, please write "no inclusion".

(\*2): Please specify the CAS No. (compound number used by American Chemical Society) listed in Table 3-1.

(\*3): Please write the content (wt%) of a substance of very high concern using the weights of supplied parts and materials as the parameter.

(\*4): Please write the amount (mg) of the substance of very high concern contained in the supplied parts and materials.

(\*5): In the case of cables and similar materials, where the unit is length, please enter its investigation unit in the remarks space.