

## JCM Group GREEN PROCUREMENT GUIDELINE

## (Information for Our Customers – JCM Guideline for Management of Chemical Substances)



April 1, 2023 10<sup>th</sup> Edition Japan Cash Machine Co., Ltd. Quality Department

## **Revision History**

R	Revision No.	Date and year of revision	Reason for revision
First Ed.	Rev. 01	Oct. 23, 2009	
	Rev. 02	Jan. 25, 2010	<ul> <li>Addition of document ID (front cover)</li> <li>[JQE04-332]</li> <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> <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> <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> <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         <ul> <li>[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> </li> </ul>
	Rev. 07	Jul. 15, 2015	<ul> <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	Change of Environmental policy
Rev. 09	June. 26, 2018	<ul> <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> <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>

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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

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.

- Active commitment to environmental protection activities
   A prospective vendor or supplier is requested to submit the completed
   vendor/supplier environmental survey report so that we can investigate the basic
   environmental protection efforts of the prospective vendor or supplier.
- (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 and a report/statement of inclusion of substances of very high concern 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
  - Vendor/supplier environmental survey report (material number: QA04-39) The prospective vendor or supplier is required to describe its efforts to obtain ISO14001 certification and promote green procurement. Each time any change occurs in the details submitted at the initiation of investigation, please submit the vendor/supplier environmental survey report.
  - (2) 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/

- Company name:
- Address:

Telephone:

Person entering the data:

- Name of responsible person:
- Information about ISO 14001 certification (check the appropriate box.)
  - We have already acquired ISO 14001 certification.
     Year and date of acquisition:
     Name of certifying organization:
     Certification No.:
  - We have a plan for acquiring ISO 14001 certification.
     Scheduled year and date of acquisition:
     Name of certifying organization:
  - □ We have not acquired ISO 14001 certification and do not have a plan for acquiring it.
- Information about green procurement initiatives (check the appropriate box.)
  - $\hfill\square$  We are executing green procurement.
  - □ We have a plan for green procurement.
  - □ We are not executing green procurement and do not have a plan for green procurement.
- Information about the outcome of the green procurement initiatives (check the appropriate box) 6
  - □ We comply with all the requirements of the latest version of Green Procurement Guideline.
  - □ We do not comply with some of the requirements of the latest version of Green Procurement Guideline.
  - We do not know whether we comply with the latest version of Green Procurement Guideline or not.

## **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 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):

- 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: O, 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.

# REPORT/STATEMENT OF CHEMICAL SUBSTANCES CONTAINED

Reference	Company	
number	name	
Date of	Name of	
filling out	department	
Telephone	Name of person	
number	in charge	
FAX number	Name of responsible person	

Image: Problem integration integrate integration integration integration integration integ	Nickel and nickel compounds
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Image: Sector of the sector	
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Image: series of the series	
III	
Image: A strain of the strai	
Image: Series of the series	
Image: Series of the series	
Image: Series of the series	
Image: Sector of the sector	
Image: Second	
	-+

					10
			M	laterial number :	QA04-420
	Name of entering	fperson			
	entering Email ad	the data			
	person i	n charge			
	Email ad responsib	dress of le person			
ups)					
	Selenium and selenium compounds	Polyvinyl chloride (PVC)	Judgment	Remarks	Date of update
		1			
		1	1		I

Category	Chemical substance	Threshold level	Example legal regulation
Calegory	Tributyltin oxide (TBTO)		IEC 62474
	Tributyltin (TBT), triphenyltin (TPT)		IEC 62474
	<ul> <li>Polychlorinated biphenyls (PCBs)</li> </ul>	Intentional addition 0 ppm Intentional addition 0 ppm	IEC 62474
	<ul> <li>Polychlorinated biphenyis (PCBs)</li> <li>Polychloronaphthalene (having two</li> </ul>	Internional addition 0 ppm	IEC 02474
	or more chlorine atoms)	Intentional addition 0 ppm	IEC 62474
Banned	Certain short-chain chlorinated		
substances	paraffin	Intentional addition 0 ppm	IEC 62474
Level A	Asbestos	Intentional addition 0 ppm	IEC 62474
(9 groups)	Certain azo dyes, pigments	Intentional addition 0 ppm	IEC 62474
	<ul> <li>Ozone-depleting substances (CFCs,</li> </ul>		120 02474
	HCFCs, HBFCs, carbon	Intentional addition 0 ppm	IEC 62474
	tetrachlorides)		120 02474
1	Radioactive substances	1 MBq	IEC 62474
		100 ppm	IEC 62474
	Cadmium and cadmium compounds	Intentional addition 0 ppm	RoHS Directive
	Hexavalent chromium and	1000 ppm	IEC 62474
	hexavalent chromium compounds	Intentional addition 0 ppm	RoHS Directive
		1000 ppm	
		Vinyl chloride cable only	IEC 62474
	<ul> <li>Lead and lead compounds</li> </ul>	300 ppm	RoHS Directive
		Intentional addition 0 ppm	
	Moroury and moroury compounds	1000 ppm	IEC 62474
	<ul> <li>Mercury and mercury compounds</li> </ul>	Intentional addition 0 ppm	RoHS Directive
	<ul> <li>Polybrominated biphenyls (PBBs)</li> </ul>	1000 ppm	IEC 62474
		Intentional addition 0 ppm	RoHS Directive
	<ul> <li>Polybrominated diphenyl ethers</li> </ul>		
Banned	(PBDEs)	1000 ppm	IEC 62474
substances	Containing Deca-BDE for polymer	Intentional addition 0 ppm	RoHS Directive
Level B	application		
(11 groups)	Di-2-ethylhexyl phthalate (DEHP)	1000 ppm	IEC 62474
( 3 1 - )		Intentional addition 0 ppm	RoHS Directive
	Butyl benzyl phthalate (BBP)	1000 ppm	IEC 62474
		Intentional addition 0 ppm	RoHS Directive
	<ul> <li>Di-n-butyl phthalate (DBP)</li> </ul>	1000 ppm	IEC 62474
		Intentional addition 0 ppm	RoHS Directive
	Diisobutyl phthalate (DIBP)	1000 ppm	IEC 62474
		Intentional addition 0 ppm	RoHS Directive
		1000 ppm	POPs
		Fabric and coated products: 1 µg/m <sup>2</sup>	Law Concerning the
	<ul> <li>PFOS and PFOS analogous</li> </ul>	Substance and preparation:	Examination and Regulation of
	compounds	50 ppm	Manufacture, etc. of Chemical
		Intentional addition 0 ppm	Substances-

Table 2-1 Banned substances (Level A and Level B) 710

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.

Category	Chemical substance	Target conditions	Example legal regulation
	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
Controlled substances	Bromine-based flame retardants (other than PBBs and PBDEs)	The content in the total mass of the delivered product exceeds 1000 ppm	IEC 62474
(9 groups)	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

#### Table 2-2 Controlled substances contained 4

\*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.

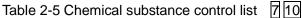
The numerator for calculating the content shall be that of the target chemical substance of calculation. However, in the case of a metal compound, only the mass of the target metal component is used as the numerator.

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)-l	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 (≤ 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> <li>Photoresist for photolithography process or antireflection coating agent</li> <li>Photographic coating agent used for film, paper, printing plates</li> </ul>

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

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

Chamical substance *1	Major relevant laws and regulations
Chemical substance *1	Major relevant laws and regulations
T-ihutukin avida (TDTO)	Law Concerning the Examination and Regulation of Manufacture,
Tributyltin oxide (TBTO)	etc. of Chemical Substances
	(Class I Specified Chemical Substances)
	Law Concerning the Examination and Regulation of Manufacture,
Tributyltin (TBT), triphenyltin (TPT)	etc. of Chemical Substances
	(Class II Specified Chemical Substances)
	Law Concerning the Examination and Regulation of Manufacture,
Polychlorinated biphenyls (PCBs)	etc. of Chemical Substances
	(Class I Specified Chemical Substances), 76/769/EEC
Polychloronaphthalene (having two or more	Law Concerning the Examination and Regulation of Manufacture,
chlorine atoms)	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)
	Law concerning the Protection of the Ozone Layer through the
	Control of Specified Substances and Other Measures
Ozone-depleting substances	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)
	Act on the Regulation of Nuclear Source Material, Nuclear Fuel
Radioactive substances	Material, and Reactors
	Denmark Statutory Order No. 1169 of December 23, 1992 on the
	Prohibition of Sale, Import, and Manufacture of
	Cadmium-Containing Products
Cadmium and cadmium compounds	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
	2000/53/EC (EU/ELV), 2011/65/EU (RoHS)
Hexavalent chromium and hexavalent	94/62/EC
chromium compounds	United States Regulations on Heavy Metals in Packaging
	76/769/EEC (+86/677/EEC)
	91/157/EEC, 93/86/EEC
Lood and lood compounds	2000/53/EC (EU/ELV), 2011/65/EU (RoHS)
Lead and lead compounds	94/62/EC
	United States Regulations on Heavy Metals in Packaging
	76/769/EEC
	91/157/EEC (+98/101/EC)
Mercury and mercury compounds	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)
	2011/65/EU (RoHS)
Polybrominated diphenyl ethers (PBDEs)	76/769/EEC (+2003/11/EC)
	(Germany Dioxin Legislation)
Di-2-ethylhexyl phthalate (DEHP)	REACH Regulations (EC) No 1907/2006
Butyl benzyl phthalate (BBP)	2005/84/EC
Di-n-butyl phthalate (DBP)	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



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				
		Tributyltin oxide (TBTO)	[1]				
		Tributyltin (TBT), triphenyltin (TPT)	[1]				
	Banned substances Level A (9 groups)	Polychlorinated biphenyls (PCBs)	[1]				
		Polychloronaphthalene (having two or more chlorine atoms)					
		Certain short-chain chlorinated paraffin *2					
		Asbestos	[1]				
		Certain azo dyes, pigments *3	[1]				
JCe		Ozone-depleting substances *4	[1]				
star		Radioactive substances	[1]				
sqn		Cadmium and cadmium compounds	[2]				
s þé		Hexavalent chromium and hexavalent chromium compounds	[2]				
Banned substance	Banned substances Level B (11 groups)	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]				
		Antimony and antimony compounds	[3], [4]				
Controlled substances (9 groups)		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					
		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: <u>https://www.nite.go.jp/chem/chrip/chrip\_search/systemTop</u>

## Chapter 3 REACH Regulation

#### 1. Definitions

 1.1 Reportable substance [1] 10 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 510
  - (1) Report/statement of inclusion of substances of very high concern (material number: QA04-44B)

We request parts investigation for each of the raw materials, parts, units, etc. supplied to JCM group, and submission of a report/statement of inclusion of substances of very high concern.

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] When 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, please write and report the information of inclusion of substances of very high concern in the table and according to the sample writing provided.

When the content is 0.1 wt% or lower, or 0, please write and report "no inclusion".

[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.

#### 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:					

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

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

[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.