

**Material Composition
Survey and Response Manual**
[Survey and Response Format Ver.4 compliant]

**2009.11.05: 1.2Edition
(Compliant JIG-101 Ed 2.0)**
(Data Format Ver. 4.00 compliant)

Japan Green Procurement Survey Standardization Initiative



Revision History:

2009.08.27: 1.1 Edition - Newly created upon the introduction of the JIG-101 Ed 2.0

2009.11.05: 1.2 Edition - Revised contents

- Note on consistency between intended use classification and content flag (Y/N) added to (1) in 3) Intended use classification on P.10.
- Column for corresponding content flag Y/N added to the intended use classification list in Exhibit 2.
- Column for corresponding content flag Y/N added to the intended use classification list in Exhibit 3, statements for intended use classifications for Ni-J-98 (nickel) and B14-J-0 (Deca-BDE) modified.

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Introduction

In January 2006, the Japan Green Procurement Survey Standardization Initiative (JGPSSI) implemented the Joint Industry Guide (JIG) 101 that was jointly developed by American and European industrial organizations (EIA and EICTA) as a guideline for common surveys on the material composition of electric and electronic equipment. Accompanying this, JGPSSI prescribed a survey and response format, released it as the Survey and Response Format Ver.3 complying with the JIG, and has been making efforts to make surveys common. By minor corrections, JIG-101 was revised to JIG-101A and released in Sept. 2007. The Survey and Response Format Ver.3 has been adapted accordingly.

Following this, JGPSSI together with American and European organizations [CEA and DIGITALEUROPE (former EICTA)] proceeded with a major revision of the JIG reflecting the latest trends of legal requirements on material composition declaration such as REACH. The application of revised substance selection criteria and newly introduced criteria to determine the threshold, significantly changed the declarable substance list. JIG-101 Ed 2.0 substantially different from the former JIG-101A was issued in April 2009.

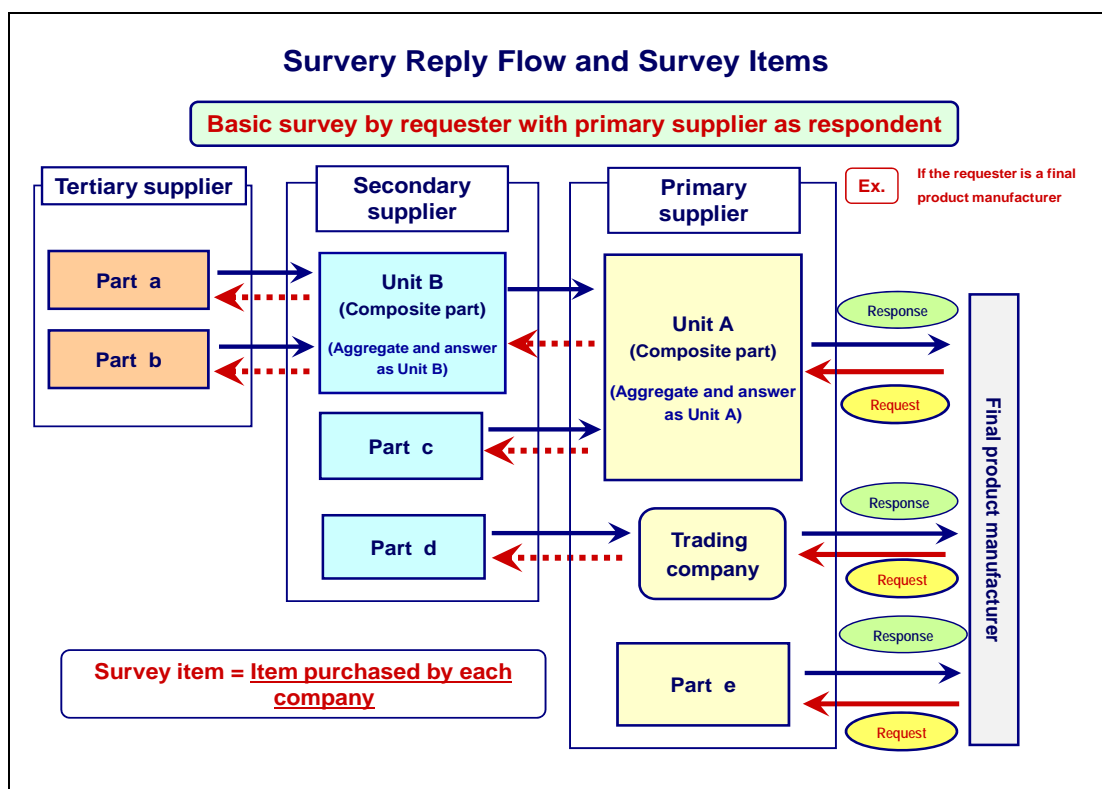
Meanwhile, the JGPSSI developed the Survey and Response Format Ver.4 complying with the JIG-101 Ed 2.0 to replace the Survey and Response Format Ver.3. In July 2009, this new format was released as the Survey and Response Tool Ver.4 to propose common surveys.

1. Purpose

This survey and response manual defines the essence of the survey of material composition and its response methods based on the Survey and Response Format Ver.4 along the JIG-101 Ed 2.0. For data exchange in an electronic form, the JGPSSI provides the Survey Response Tool Ver.4 of the Excel version. This manual explains the format items built in this tool and how to answer them.

(The response methods of the Survey and Response Format Ver.4 are based on the former Ver.3.)

The material composition survey defined in this manual is designed for a requester to receive a response from the primary suppliers. Therefore, a survey is conducted on items that each requester purchases from the primary suppliers. As shown in the figure below, it is a premise that each responder conducts a similar survey by going back along the supply chain and that the information on material composition of products is accurately communicated from upstream suppliers (material manufacturers) to downstream suppliers (final product manufacturers).



This survey is intended for companies to manage material composition of products and does not serve the following purposes:

- (1) Proof of non-containing of certain chemical substances, assurance for compliance with applicable laws and regulations, and analysis requirements for assurance.
- (2) Interpretation of laws and regulations.
- (3) Provision of information to end-users upon making purchase decisions, etc.

For the handling of substance information transmission in material composition management, see "Guidelines for the Management of Chemical Substances in Products - Edition 2" issued by the JGPSSI.

2. Scope of Application

The survey established based on this manual is conducted on products, parts and materials that consist of electrical and electronic equipment (including accessories). The survey also covers batteries. It is not addressing:

- (1) Packing materials used by a respondent to transport and store the product sold to the requester.
- (2) Indirect components and sub-materials used in the manufacturing process that do not comprise products/parts.

3. Definition of Terms

- (1) Product:
The item that the respondent is supplying to the electrotechnical industry (e.g., assembly, subassembly, component). The term "product" also covers a product family if the products within that family perform the same function and have consistent material declarations.
- (2) Substance group:
A generic term for surveyed chemical elements and their compounds. See Annex A "Surveyed Substance Group List" and Annex 5 "Illustrated Substance List" of this manual.
- (3) Intentionally added:
Deliberate use in the formulation of a product where its continued presence is desired to provide a specific characteristic, appearance or quality.
- (4) Threshold level (Reporting Level):
Concentration level which defines the limit above which the presence of a substance or material contained in a product or subpart must be declared based on the requirements of this guide. A threshold level indicates an intentionally added threshold and/or a numerically set threshold (xx% ppm).
- (5) Impurity:
Substance contained in a natural material that cannot be completely removed using industrial technology during the industrial refining process or a substance produced during a synthetic reaction process that cannot be completely removed using industrial technology. If a substance is used for the purpose of changing material properties, it should be indicated as "intentionally added."
- (6) Recycled materials:
Although there is no absolute definition of "recycling," it is generally used to mean the "reuse or recycling of natural resources and waste" and "recycled materials" refer to materials that are to be reused or recycled.
Recycled materials are classified into "closed recycled materials" whose identity and chemical substances and other materials intentionally added to them are known and "open recycled materials" obtained from the market whose identity and inclusion of chemical substances are unknown.

- (7) **Material contamination:**
A substance mixed in the material during the manufacturing process. Although contamination at less than the threshold level is tolerated, it is desirable to reduce it.
- (8) **Application area:**
An area among the constituent components of parts that contains surveyed chemical substances.
- (9) **Purpose of use/intended use:**
Performance and functions intended to be enhanced by adding chemical substances to a product or subpart.
- (10) **Homogeneous material:**
A material that cannot be mechanically disjointed into different materials.
The term "homogeneous" means "of uniform composition throughout." Examples of "homogeneous materials" are individual types of plastics, ceramics, glass, metals, alloys, paper, board, resins and coatings.
- (11) **Mechanically disjointed:**
The term "mechanically disjointed" means that the materials can, in principle, be separated by mechanical actions such as: unscrewing, cutting, crushing, grinding and abrasive processes.

4. Response Format

This manual is written for the Survey and Response Format Ver.4. However, the response format is for responses on a substance group level and succeeded the standard concept from the former Survey and Response Format Ver.3. For details about the content information of some substance groups corresponding to REACH <see (5) Substance information>, each compound is answered on the CAS number level by the newly set substance unit line (see Annex 6 "Data Format").

5. Survey Items (Input method for each item)

- (1) **Requester information:**
- 1) **Reference number:**
Used by a requester to manage a survey by survey file, and is entered by the requester.
 - 2) **Requester's date of data entry:**
Enter the date of survey request by the requester. The date format is year/month/day (YYYY/MM/DD).
 - 3) **Company name:**
Information on the requester.
 - 4) **DUNS number:**
Information on the requester.
(Note) DUNS number is a nine-digit company identification code issued by D&B.
 - 5) **Division name:**
Information on the requester.
 - 6) **Contact name:**
Information on the requester.
 - 7) **Telephone number (contact information):**
Information on the requester.
 - 8) **Fax number:**
Information on the requester.

- 9) E-mail address:
Information on the requester.
- 10) Requester's management items 1-3:
Additional information on requester should be entered here. These items are used based on the requester's settings. Do not use these items for any other purposes. (Ex: section code, factory code)
- 11) Remarks by requester:
Enter the requester's notes or comments at the input of a response. Do not misuse this field for requesting guarantees or listing additional requirements

(2) Respondent information:

In principle, enter your information according to the instructions below. If any instructions are given from the requester, however, follow them.

- 1) Respondent's date of data entry:
Enter the date of response. This field is required.
- 2) Company name:
Enter respondent's company name. This field is required.
If the respondent is a trading company, enter the information as a trading company instead of a manufacturer.
- 3) DUNS number: DUNS:
Leave it blank if it is unknown.
- 4) Address:
Input the respondent's address.
- 5) Division name:
Enter respondent's division name.
- 6) Contact name:
Enter the name of the person in charge of reporting the survey data. This field is required.
- 7) Telephone number: This field is required.
Enter the telephone number of the person indicated in item 6) or the person in charge of inquiries regarding the survey data.
- 8) Fax number:
Enter the fax number of the person indicated in item 6) or the person in charge of inquiries regarding the survey data.
- 9) E-mail address:
Enter the e-mail address of the person indicated in item 6) or the person in charge of inquiries regarding the survey data.
- 10) Requester's management items 4-6:
These items are set and used by the requester to manage the information on the respondent. Do not use these items for any other purposes. (Ex: supplier's name, supplier's code)
- 11) Additional information regarding survey response:
This includes overall comments on survey responses (and is entered by the respondent).

(3) Product/subpart/material information:

- 1) Product/subpart number of requester: This field is required (only when there is no data in 3) Material identification information below).
The product/subpart management number used by the requester. In principle, it is entered by the requester.
- 2) Product/subpart/material name of requester:
The product/subpart/material name the requester uses for the surveyed items. In principle, it is entered by the requester.
- 3) Material identification information:
This information is used when the requester intends a survey on such materials as metals or resins but the materials do not have product/subpart numbers of 1) above. Based on this information, the respondent can identify surveyed materials. In principle, this is entered by the requester.
 - 3)-1 Material grade number:
The grade number identifying materials should be entered here. It is mainly used for resins and related materials.
 - 3)-2 Metal/JIS symbols:
Metal symbols identifying metals or metal symbols specified by JIS should be entered here. These symbols are used primarily for metal materials.
 - 3)-3 Coloring number:
The coloring number identifies the color of a material. This number is equivalent to a number managed by the material manufacturer or the colorant company. It is used primarily for resins and related materials.
 - 3)-4 Thickness (mm):
This information identifies the thickness of a material. The unit is measured in mm. It is mainly used for flat materials (e.g. metal steel plates, sheet materials).
 - 3)-5 Color:
This is used when the coloring number in the above item 3)-3 is not available and the information on material color can be identified by letters.
 - 3)-6 Diameter (mm):
This information identifies the diameter of a material. The unit is measured in mm. It is primarily used for cylindrical materials.
- 4) Requester's items 1-3:
In principle, these items are entered by the requester to identify and manage the surveyed items.
(Note) This is the data field used for data management. Do not use it for individual survey.
Respondents should not enter these items.
- 5) Manufacturer name:
Enter the name of the manufacturer of the survey items. This field is required.
- 6) Respondent's product/subpart/material number: This field is required.
This number identifies respondent's product/subpart/material. In principle, it is entered by the respondent.
- 7) Respondent's product/subpart/material name:
A product provided or to be provided by the respondent. In principle, it is entered by the respondent.
- 8) Respondent's items 1-3:
Respondent's items 1-3 are used by the respondent (respondent's memo).
- 9) Data version:
Enter the management number that identifies the version of the survey response data used by the respondent. Keep it blank if it is not applicable.

10) Revision date:
Enter the date when you respond data or finalize the data of the version responded at 9) above.

11) Survey unit: This field is required.
Choose the unit of the survey item when reporting its content. If the survey unit is specified by the requester, follow the requester's instructions.
e.g.) In the case of a subpart, "piece" is used in principle. For raw materials, choose the most appropriate unit from "g", "kg", "mm", "m", "cm²", "m²", "cc", "liter" or "m³".

12) Survey unit mass (g/survey unit): This field is required.
Enter the total mass per surveyed unit chosen in item 11).
e.g.) If the survey unit is "piece" → Mass per piece of survey item
If the survey unit is "kg" → Mass per 1kg of surveyed item = 1000g

Attention: Relationship between "survey unit" and "survey unit mass"

For a subpart, the content per piece is usually answered.. Therefore, specify "piece" and enter its mass in "survey unit mass." If the unit is kg as for substance, specify "kg" and enter "1000" (g) in "survey unit mass." For a wire, specify "m" or a similar unit of length and enter the mass per meter in "survey unit mass." For materials in a vessel, either specify "piece" and enter the mass per vessel or specify "g" and enter "1" (g).

13) Overall content flag: This field is required.
Input Y when one or more content flag out of all substance groups is Y. Input N when all of content flags are N.

(The Survey and Response Tool Ver.4 automatically displays Overall content flag.)

(4) Substance group information:

(How to input for each surveyed item the information about contained substance groups)

(Note 1) This survey is not to receive chemical substance information about each subpart individually that forms the surveyed product. Its intention is to receive integrated (totaled) chemical substance information about the surveyed product.

(Note 2) This survey is on substance groups defined in Annex A of "9. Attachments" of this manual (hereinafter, Annex A). The detailed substances are not surveyed. By referring to the JIG Detailed Substance Lists (Exhibit 5.), it is possible to check which substances are covered by the respective substance groups.

(Note 3) The reporting of azocolourants and azodyes, formaldehyde, and nickel is only required for specific applications. For details, see Annex A, "Reportable Application."

Substance group Information (Each survey item)	How To Answer Each Survey Item
<p>1) Content flag by threshold level (Y/N)</p> <p>(Required for all substance groups)</p>	<p>(1) Answer Y or N for each substance group in Annex A dependent if the substance exceeds the threshold level or not.</p> <p>(2) The threshold level (Reporting Level) is set in Annex A for each substance group (Annex A handles even a single substance as a substance group.)</p> <p>(3) If the reporting product belongs to " Reportable Application " specified in Annex A, the corresponding threshold level in " Reportable Application " applies. If " Reportable Application " is set for specific products and parts only and the product to be reported does not belong to " Reportable Application," the content flag is N irrespective of the amount of content.</p> <p>(4) If several " Reportable Applications" and threshold levels exist for the same substance group, the content flag is Y for this substance group if for any of the reportable applications the respective threshold is exceeded (e.g. Lead and its compounds)</p> <p>(5) Even if the intended use of a substance/substance group is exempted from a legislation e.g from the RoHS directive, the content flag Y/N is purely based on the decision whether the corresponding threshold level is exceeded or not..</p> <p>(6) When a threshold level is set for "intentionally added" only, the content flag is Y if there is a substance intentionally added, irrespective of the amount of content, but N if there is no such a substance.</p> <p>(7) When the threshold level is set for "numeric value% (ppm)," the content flag is Y if the concentration is over the corresponding value whether the substance is intentionally added or irrespective of any other reason. Note that the denominator in the concentration calculation formula may differ depending on the threshold level. (See Annex A.)</p> <p>Note) "Other reasons" refer to cases where materials/substances are not intentionally added but where they derived from impurities in natural resources, residuals of manufacturing processes, contamination or use of recycled materials.</p> <p>(8) For the content flag when a threshold level is set for "intentionally added" and "numeric value% (ppm)," determine the content flag by referring to the flow chart in Exhibit 1. (For mercury and TBTO)</p> <p>(9) The following 2) – 6) needs to be answered for all substance groups if the content flag is Y.</p> <p>(10) In case that the content flag is rated as N, but the content is known enter necessary information into 2) - 6) in the same way as when the content flag is Y. The intention of this is avoid an interruption of the information flow in the supply chain. By providing this information a re-survey can be avoided.</p>

Substance group Information (Each survey item)	How To Answer Each Survey Item
<p>2) Total content (mg)</p> <p>(Required for all substance groups if content flag is Y)</p>	<p>(1) Enter in mg and two significant digits (round the third digit) the content of chemical substances per survey unit as set by 11) in "(3) "Product/subpart/material information." Note) See "Attention: Relationship between survey unit and survey unit mass at 12) in (3).</p> <p>(2) The known maximum content should be entered, in principle.</p> <p>(3) If the substance group is a metal/metal compound or a metal compound, the total content is based on the following :</p> <ul style="list-style-type: none"> i. Substance group with CAS number in Annex A: the mass of the metal compound . ii. Substance group with no CAS number in Annex A: the mass of the pure metal = (mass of the metal compound multiplied by the metal conversion factors). (See Exhibit 5 "JIG Detailed Chemical Lists.") <p>Note) If each category is a metal and its compounds, the maximum content rate in homogeneous material of 6) below is based on the metal compound mass multiplied by the respective metal conversion.</p>
<p>3) Intended use classification</p> <p>(Required for all substance groups if content flag is Y)</p>	<p>(1) Select an applicable intended use classification code from the list. If there are several application areas, select all applicable intended use classification codes from the list. <u>Note: For each intended use classification, corresponding items are assigned based on whether the content flag is Y or N. Select the intended use classification that is consistent with the content flag (Y/N).</u> <u>(Refer to the intended use classification lists and corresponding content flags (Y/N) in Exhibit 2 and Exhibit 3)</u></p> <p>(2) If exemption defined in the RoHS or ELV Directive applies to the content, select the corresponding intended use classification code. (e.g. Cd-R-2 means exemption in the RoHS Directive and Pb-RE-2 means exemption common to the RoHS Directive and the ELV Directive. See Exhibit 2 and Exhibit 3.)</p> <p>(3) When appropriate intended use classification is not listed, select "content not for specific use" as Cd-J-0, then enter details at 7) "Additional information on material composition of products."</p> <p>(4) When the content flag is N and further information will be voluntarily provided select the corresponding intended use classification.</p> <p>Note 1) When the product falls under the "Reportable Application" battery and the content flag is N, the most appropriate intended use classifications to select are Cd-RE-98, Pb-RE-98, or Hg-RE-98.</p> <p>Note 2) When the product falls under the "Reportable Application" consumer products designed or intended primarily for children 12 years of age or younger and the content flag is N, the most appropriate intended use classifications to select is Pb-RE-98.</p>
<p>4) Purpose of intended use</p> <p>(Required for all substance groups if content flag is Y)</p>	<p>(1) Briefly explain the purpose of using chemical substance.</p> <p>Ex. 1: Stabilizer, plasticizer, colorant, flame retardant, anti-rust agent, soldering</p> <p>Ex. 2: Main constituent, to increase thermostability, to enhance electric properties, to improve mechanical properties</p> <p><u>Note) For substance groups covered by REACH (see Note 4 Annex A), "purpose of intended use" needs to be filled out following "5.3. information on specific substances contained"</u></p>
<p>5) Application area</p> <p>(Required for all substance groups if content flag is Y)</p>	<p>(1) An application area refers to an area among the constituent components of parts that contains surveyed chemical substances. The name of the application area should be a generic name that is used in specifications and drawings or used by vendors.</p> <p>(2) If the same chemical substance is contained in several application areas, enter major application areas only. If this is the case, indicate "etc." at the end.</p>

Substance group Information (Each survey item)	How To Answer Each Survey Item
<p>5) Application area (Continued)</p>	<p>(3) If the survey item is a single electronic subpart or other product, the application area should be indicated in the drawing, material composition list, etc. of the subpart. (See Exhibit 4.)</p> <p>Examples 1) to 3) are shown below.</p> <p>Ex. 1) Ceramic materials and internal and external electrode materials in the laminated ceramic capacitor Ex. 2) Lead wire, electrolytic solution, sealant, and electrode foil in the electrolytic capacitor Ex. 3) Rubber contact point, spring and plastic cover in the switch</p> <p>(4) If the survey item is a device/equipment or electronic assembly subpart, the application area should be indicated in the drawing, parts list, etc. of this device or equipment e.g.) Laminated ceramic capacitor, electrolytic capacitor, printed circuit board, assembling solder</p> <p><u>Note) For substance groups covered by REACH (see Note 4 Annex A), "Application area" needs to be filled out following "5.3. information on specific substances contained"</u></p>
<p>6) Maximum content rate of homogeneous material (ppm) (Required for specific substance groups only if content flag is Y)</p>	<p>(1) Enter the content rate (ppm) of each substance group in a homogeneous material where the substances are contained.</p> <p>(2) If there is a substance of the same intended use classification code used in several areas (=different homogenous materials), enter the <u>maximum value (ppm)</u>.</p> <p>(3) If the content flag is Y, a response about this item is required for the following nine groups but optional for others.</p> <ul style="list-style-type: none"> • A05: Cadmium/cadmium compounds • A07: Chromium VI compounds • A09: Lead/lead compounds • A10: Mercury/mercury compounds • B02: Polybrominated Biphenyls (PBBs) • B03: Polybrominated Diphenylethers (PBDEs) • B14: Deca-BDE(PBDE) • B13: Perfluorooctane sulfonate (PFOS) • C10: Phthalates (DINP, DIDP, DNOP) (However, intended use classification code C10-J-0 only)
<p>7) Additional information on materials/substances (Optional)</p>	<p>(1) Enter additional information on material/substances if any.</p> <p>e.g.) - CAS No. and ISO No. of materials/substances - Alternative plans, reduction plans - Information on radioactivity must be reported. For example, radioactivity isotope name and code, max activity level (MBq), and typical activity level (MBq).</p>

(5) Substance Information :

(How to input for each surveyed item the information about those specific substance groups that correspond to REACH – see Note 4 in Annex A)

Substance Information (Each survey item)	How To Answer Each Survey Item
1) CAS number	<p>(1) The CAS numbers of surveyed chemical substances are for the groups given in Note 4) of Annex A.</p> <p>Note) The CAS numbers of the above substances are representative ones. If there are any other applicable substances, enter their CAS numbers. This is optional. CAS numbers may be entered for up to three substances.</p>
2) Content of compound per survey unit (mg) (Required if content flag is Y)	<p>(1) Enter in mg and two significant digits (round the third digit) the content of compound of the CAS number per survey unit.</p> <p>Note 1) Even for a metal compound, enter its content without metal conversion. <See Note) in Exhibit 5.></p> <p>Note 2) In case the substance group just represents a single substance the “content of compound per surveying unit” is identical to the “total content” of the substance group in level 2. In case the substance group represents more than one substance the “total content” of the substance group in level 2 represents the sum of the individual “content of compound per surveying unit” of all declared substances belonging to this group.</p>
3) Purpose of intended use (Require if content flag is Y)	<p>(1) Briefly explain the purpose of using chemical substances of the intended CAS number in the "intended use" column.</p> <p>Ex.1) Stabilizer, plasticizer, colorant, flame retardant, anti-rust agent, soldering Ex.2) Main constituent, to increase thermostability, to enhance electric properties, to improve mechanical properties</p>
4) Application area (Required if content flag is Y)	<p>(1) Enter application areas where the compound of the CAS number is contained. The name of the application area should be a generic name that is used in specifications and drawings or used by vendors.</p> <p>(2) If the same chemical substance is contained in several application areas, enter major application areas only. If this is the case, indicate "etc." at the end.</p> <p>(3) If the survey item is a single electronic subpart or other product, the application area should be indicated in the drawing, material composition list, etc. of the subpart. (See Exhibit 4.)</p> <p>(5) If the survey item is a device/equipment or electronic assembly subpart, the application area should be indicated in the drawing, parts list, etc. of this device or equipment</p> <p>(4) e.g.) Laminated ceramic capacitor, electrolytic capacitor, printed circuit board, assembling solder</p>
5) Weight concentration per survey unit (%) (Required if content flag is Y)	<p>(1) Enter the weight concentration of compound of the CAS number per survey unit in %.</p> <p>Formula = $\frac{\text{Content mg} \times 10^{-3}}{\text{Survey unit mass g}} \times 100$</p> <p>(The Survey Response Tool Ver.4 automatically calculates weight concentration.)</p>
6) Additional information on substances (Optional)	<p>(1) Enter additional information on the content of the chemical substance of the CAS number if any.</p>

6. Response Methods and Survey Response Format (Data Format)

The JGPSSI has established rules and requirements for arranging data and other information when answering a green procurement survey, and has developed a survey response format (data format, see Exhibit 6). In principle, all survey responses should be exchanged via electronic data (JGP4 file) based on JGPSSI's survey response format (data format). We also provide free software of survey response tools that help respondents create JGP4 file in accordance with our survey response format (data format). It is acceptable to reply to a survey by creating JGP4 file without using the survey response tool.

Please see "Survey Response Tool Ver.4 Operation Manual" for how to create response data using the survey response tool.

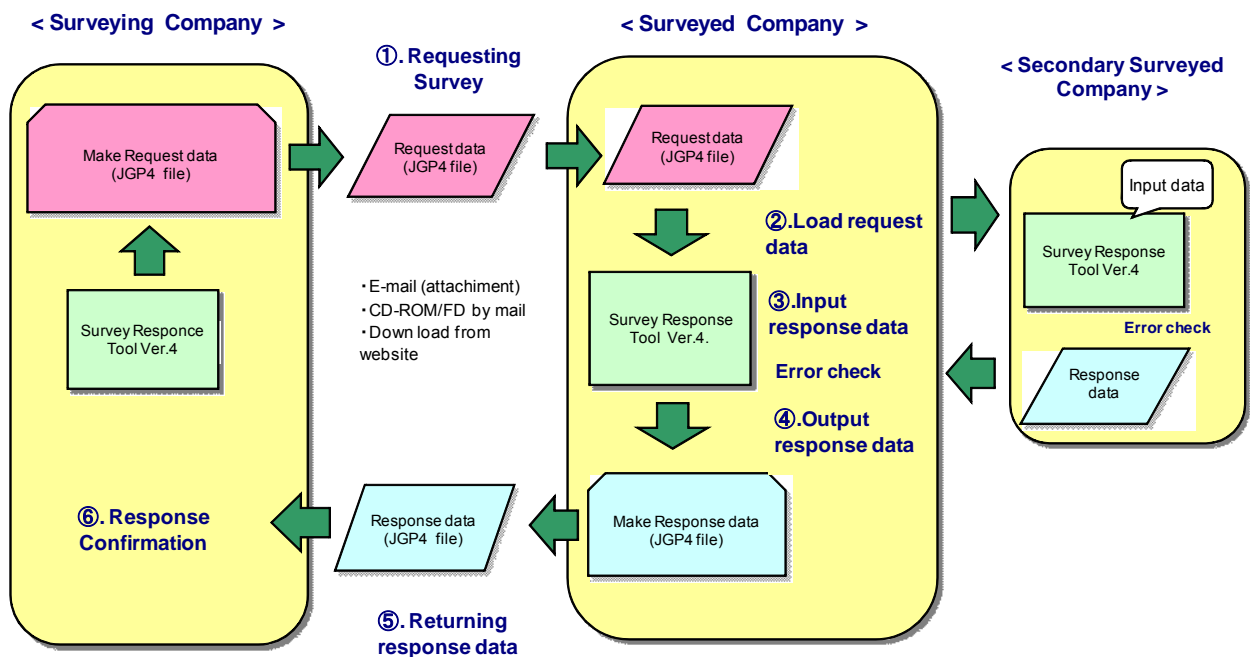
7. Formats for Handwritten Response

As explained in section 6 above, while in principle the survey response favors the exchange of JGP files, the JGPSSI also provides formats for handwritten response (see Exhibits 7). This format is an alternative for those who are unable to utilize the electronic formats (JGP file). Exhibits 7 may be copied and used when making a handwritten response.

For handwritten response, circle the applicable content flag (Y/N). For "Intended use classification," "Purpose of intended use," "Application area," "Content rate," and "Additional information on materials/substances," fill in the corresponding fields of "Contained substance group - Detailed information" on the second hierarchical level (Level 2). For the content information of some groups corresponding to REACH on the CAS number level, fill in the corresponding fields of "Contained substance - Detailed information" on the third hierarchical level (Level 3).

For how to use and fill out this format, please follow the instructions in this manual. Note that the formats for handwritten response are only provided in PDF form as shown in this manual's exhibits. Please do not change the survey items.

8. Operation Flow



Note: Preparing response data without using the survey tool is permitted.

9. Attachments

Annex A: Surveyed substance group List (Quoted from Table A of Annex A in JIG-101 Ed 2.0)

Note 1: The substance group listing order is the same as the Survey and Response Tool Ver.4 and different from the JIG.

Note 2: The substances listed, the reportable applications and the threshold are taken from JIG-101 Ed 2.0.

Note 3: The substance group classification numbers are unique to JGPSSI. New numbers are set for newly added substance groups (compared to JGPSSI version 3)

Note 4: For responses about some substance groups corresponding to REACH (substance group classification No. A17, A20, A21, B11, B09, B16 and C09) on the CAS number level, see "(5) Substance Information." (When using the Survey and Response Tool Ver.4, enter responses in the third hierarchical level.)

Criteria	Substance group classification No. (JGPSSI)	Substance groups	Reportable Application(s)	Threshold Level (Reporting level)
R	A05	Cadmium/cadmium compounds	All, except batteries	0.01% by weight (100 ppm) of homogeneous materials
R	A05	Cadmium/cadmium compounds	Batteries	0.0005% by weight (5 ppm) of battery
R	A07	Chromium VI compounds	All	0.01% by weight (100 ppm) of homogeneous materials
R	A09	Lead/lead compounds	All, except as noted below	0.01% by weight (100 ppm) of homogeneous materials
R	A09	Lead/lead compounds	Consumer products designed or intended primarily for children 12 years of age or younger.	0.03% by weight (300 ppm) of children's product
R	A09	Lead/lead compounds	Paint and similar surface coatings of toys and other articles intended for use by children	0.009% by weight of surface coating
R	A09	Lead/lead compounds	Cables/cords with thermoset or thermoplastic coatings	0.03% by weight (300 ppm) of surface coating
R	A09	Lead/lead compounds	Batteries	0.004% by weight (40 ppm) of battery
R	A10	Mercury/mercury compounds	All, except batteries	Intentionally added or 0.1% (1,000 ppm) at homogeneous material (See Exhibit 1. Content Judgment Flow)
R	A10	Mercury/mercury compounds	Batteries	0.0001% by weight (1 ppm) of battery
R	A11	Nickel	All, where prolonged skin contact is expected	Intentionally added
R	A17	Tributyl Tin Oxide (TBTO) (CAS No. 56-35-9)	All	Intentionally added or 0.1 % by weight (1,000 ppm) of the product (See Exhibit 1. Content Judgment Flow)
R	A18	Certain Tributyl Tin (TBT) and Triphenyl Tin (TPT) compounds	All	Intentionally added
I	A19	Beryllium Oxide (BeO) (CAS No. 1304-56-9)	Ceramics	0.1 % by weight (1,000 ppm) of the product
R	A20	Diarsenic Pentoxide (CAS No. 1303-28-2)	All	0.1 % by weight (1,000 ppm) of the product
R	A21	Diarsenic Trioxide (CAS No. 1327-53-3)	All	0.1 % by weight (1,000 ppm) of the product
R	B02	Polybrominated Biphenyls (PBBs)	All	0.01% by weight (100 ppm) of homogeneous materials
R	B03	Polybrominated Diphenylethers (PBDEs)	All	0.01% by weight (100 ppm) of homogeneous materials
R	B14	Deca-Bromodiphenylether (Deca-BDE) (PBDE) (CAS No.1163-19-5)	TV and computer housings	Intentionally added

Criteria	Substance group classification No. (JGPSSI)	Substance groups	Reportable Application(s)	Threshold Level (Reporting level)
R	B11	Hexabromocyclododecane(H BCDD) and all major diastereoisomers (CAS No. 25637-99-4, CAS No. 3194-55-6)	All	0.1 % by weight (1,000 ppm) of the product
I	B08	Brominated flame retardants (other than PBBs,PBDEs, or HBCDD)	Plastic parts >25 grams other than in Printed Circuit Assemblies	0.1 % by weight (1,000 ppm) of the product
R	B05	Polychlorinated Biphenyls (PCBs) and specific substitutes	All	Intentionally added
R	B15	Polychlorinated Terphenyls (PCTs)	All	Intentionally added
R	B06	Polychlorinated Naphthalenes (more than 3 chlorine atoms)	All	Intentionally added
R	B09	Shortchain Chlorinated Paraffins (C10 – C13)	All	0.1 % by weight (1,000 ppm) of the product
A	B16	Tris(2-chloroethyl) phosphate (TCEP)	All	0.1 % by weight (1,000 ppm) of the product
R	B12	Perchlorates	All	0.000006 % by weight (0.006 ppm) of the product
R	B13	Perfluorooctane sulfonate (PFOS)	All	Intentionally added
R	B10	Fluorinated greenhouse gases (PFC, SF6, HFC)	All	Intentionally added
I	B07	Polyvinyl Chloride (PVC)	All	0.1 % by weight (1,000 ppm) of the product
R	C01	Asbestos	All	Intentionally added
R	C02	Azocolourants and azodyes which form certain aromatic amines	Textiles and leather	0.003% by weight (30 ppm) of the finished textile/leather product
R	C04	Ozone Depleting Substances	All	Intentionally added
R	C06	Radioactive substances	All	Intentionally added
R	C07	Formaldehyde	Textiles	0.0075%by weight (75 ppm) of textile product
R	C07	Formaldehyde	Composite wood (plywood, particle board, MDF) products or Components	Intentionally added
R	C08	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (CAS No. 3846-71-7)	All	Intentionally added
R	C09	Phthalates DEHP : (CA No.117-81-7) DBP : (CAS No.84-74-2) BBP : (CAS No.85-68-7)	All	0.1 % by weight (1,000 ppm) of the product
R	C10	Phthalates DINP :(CAS No.28553-12-0, CAS No.68515-48-0) DIDP :(CAS No.26761-40-0, CAS No. 68515-49-1) DNOP :(CAS No.117-84-0)	Children's toy that can be placed in a child's mouth or Child care article	Children's toy that can be placed in a child's mouth or Child care article

Exhibit 1: Content Judgment Flow (Dual threshold level)

< Quotation from JIG -101 Ed 2.0 Annex C >

This flow chart is applied to Mercury/mercury compounds (All, except batteries) and TBTO.

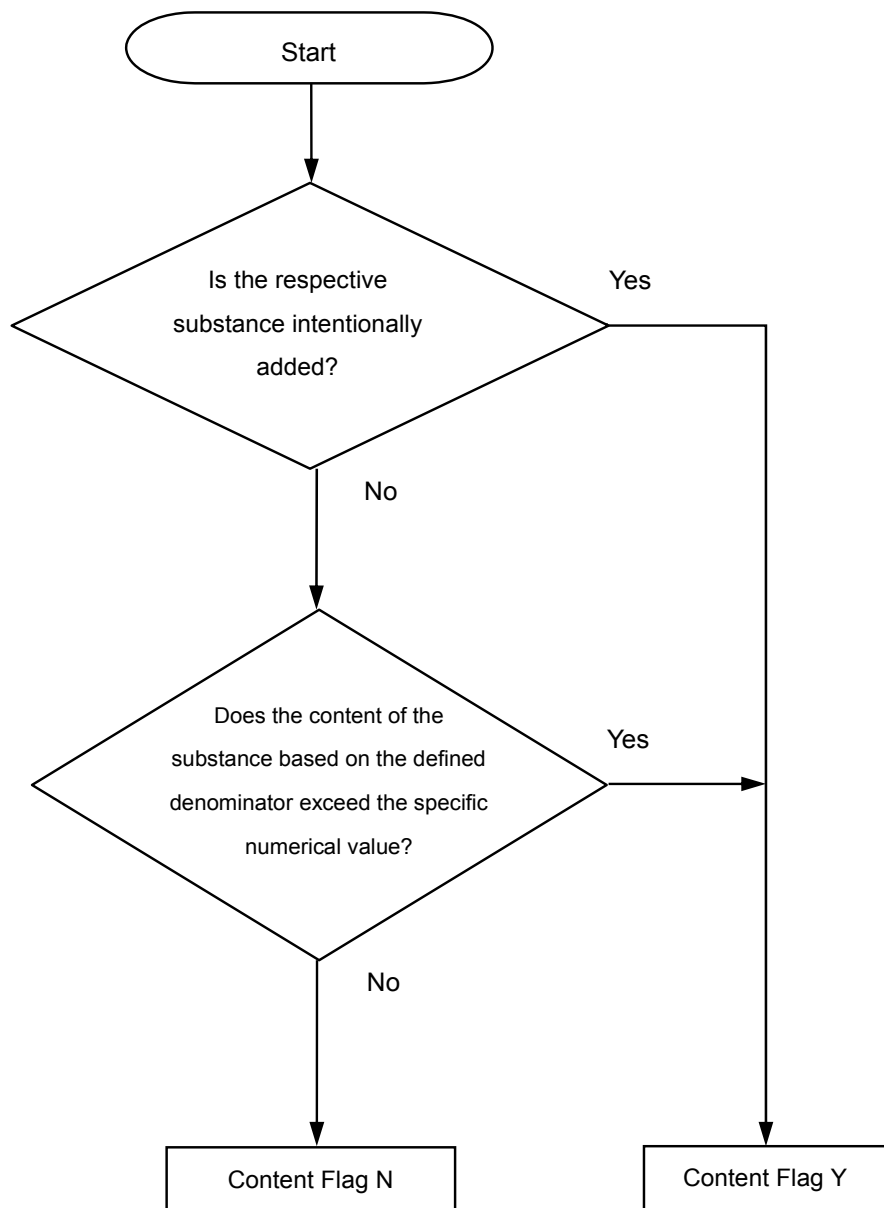


Exhibit 2: Intended Use Classification List (Annex A: Four Heavy Metals)

Substance groups	Relevant regulation		Content flag corresponding to the right	Intended use classification codes	Intended use classification	
	RoHS	ELV				
Cadmium	!		Y	Cd-R-1	Cadmium exceeding 100ppm in homogeneous material in Electric point and plating excluding uses banned by the amended EU Directive 76/769/EEC "91/338/EEC"	
	!			Cd-R-2	Optical glass and filter glass containing cadmium exceeding 100ppm in homogeneous material.	
	!			Cd-R-3	Printing inks for the application of enamels on borosilicate glass containing cadmium exceeding 100ppm in homogeneous material.	
	!			Cd-R-4	Cadmium exceeding in homogeneous material in 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.	
	!			Cd-R-5	Cadmium, exceeding 100ppm in homogeneous material, in photoresistors for optocouplers applied in professional audio equipment until 31 December 2009.	
	!			Cd-R-6	Cadmium, exceeding 100ppm in homogeneous material, in cadmium oxide in thick film pastes used on aluminium bonded beryllium oxid.	
		!		Cd-E-2	Batteries for electric vehicles containing cadmium exceeding 100ppm in homogeneous material.	
				Cd-B-1	Batteries containing cadmium exceeding 5ppm by weight of the battery.	
				Cd-J-0	Cases containing intentionally added cadmium exceeding 100ppm in homogeneous material, excluding specified uses. (* Details in column on the right.)	
				Cd-J-99	Containing cadmium above 100ppm in homogeneous material. : Impurities/recycled materials/contamination	
	!			N	Cd-R-0	Cases containing 100ppm or less of intentionally added cadmium in homogeneous material, excluding specified uses. (* Details in column on the right.)
	!	!			Cd-RE-98	Containing 100ppm or less of cadmium in homogeneous material. : Impurities/recycled materials/contamination
	Hexavalent Chromium Compounds	!			Y	Cr-R-1
		!	Cr-E-1	Anti-corrosion coatings containing hexavalent chromium exceeding 1000ppm in homogeneous material.(Other than below Cr-E-2)		
		!	Cr-E-2	Corrosion preventive coating related to bolt and nut assemblies for chassis applications, containing hexavalent chromium exceeding 1000ppm in homogeneous material.		
		!	Cr-E-3	(Absorption) refrigerators in motor caravans containing hexavalent chromium exceeding 1000ppm in homogeneous material.		
			Cr-J-0	Cases containing intentionally added hexavalent chromium exceeding 1000ppm in homogeneous material, excluding specified uses. (* Details in column on the right.)		
			Cr-J-99	Containing hexavalent chromium above 1000ppm in homogeneous material. : Impurities/recycled materials/contamination		
!			N	Cr-R-0	Cases containing 1000ppm or less of intentionally added hexavalent chromium in homogeneous material, excluding specified uses. (* Details in column on the right.)	
!		!		Cr-RE-98	Containing 1000ppm or less of hexavalent chromium in homogeneous material. : Impurities/recycled materials/contamination.	
Lead (continuing)	!	!	Y	Pb-RE-1	Lead exceeding 1000ppm in homogeneous material in glass used in CRT, electronic parts, and fluorescent tubes	
	!	!		Pb-RE-2	Lead exceeding 1000ppm in homogeneous material in electronic ceramic parts	
	!	!		Pb-RE-3	Steel materials containing 0.35% or less ,but exceeding 1000ppm in homogeneous material, of lead by weight (including zinc plating, free-machining steel)	
	!	!		Pb-RE-4	Copper alloy containing 4% or less, exceeding 1000ppm in homogeneous material, of lead by weight (e.g. brass, phosphor bronze)	
	!			Pb-R-1	Aluminum materials containing 0.4% or less, exceeding 1000ppm in homogeneous material, of lead by weight	
	!			Pb-R-2	Lead in high-melting point solder (lead alloy containing above 85% of lead by weight)	
	!			Pb-R-3	Lead, exceeding 1000ppm in homogeneous material, in soldering for servers, storage and storage array systems, and network infrastructure equipment for switching, signaling, transmission and network management for telecommunication	
	!			Pb-R-4	Compliant pins/connectors containing lead exceeding 1000ppm in homogeneous material.	
	!			Pb-R-5	Coating material for thermal conduction module C-rings, containing lead exceeding 1000ppm in homogeneous material.	
	!			Pb-R-6	Optical glass and filter glass containing lead exceeding 1000ppm in homogeneous material.	
	!			Pb-R-7	Solder consisting of more than two types of elements for connecting microprocessor pins and package containing less than 85wt% and more than 80wt% of lead.	
	!			Pb-R-8	Lead, exceeding 1000ppm in homogeneous material, in solder for connecting semiconductor dies and carriers in flip chip IC packages	
	!			Pb-R-9	Lead, exceeding 1000ppm in homogeneous material, in Lead-bronze bearing shells and bushes.	
	!			Pb-R-10	Lead, exceeding 1000ppm in homogeneous material, in linear incandescent lamps with silicate coated tubes.	
	!			Pb-R-11	Lead halide, containing lead exceeding 1000ppm in homogeneous material, as radiant agent in High Intensity Discharge(HID) lamps used for professional reprography applications.	
	!			Pb-R-12	Lead, exceeding 1000ppm in homogeneous material, 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 (BaSi2O5:Pb) as well as when used as speciality lamps for diazo-printing reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr, Ba)2MgSi2O7:Pb).	
	!			Pb-R-13	Lead, exceeding 1000ppm in homogeneous material, with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact Energy Saving lamps (ESL).	
	!			Pb-R-14	Lead, exceeding 1000ppm in homogeneous material, in lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD).	
!		Pb-R-15	Lead, exceeding 1000ppm in homogeneous material, in printing inks for the application of enamels on borosilicate glass.			
!		Pb-R-16	Lead, exceeding 1000ppm in homogeneous material, as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communications systems until 31 December 2009.			
!		Pb-R-17	Lead, exceeding 1000ppm in homogeneous material, in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead-frames.			
!		Pb-R-18	Lead, exceeding 1000ppm in homogeneous material, in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors.			

Exhibit 2: Intended Use Classification List (Annex A: Four Heavy Metals) (Cont'd)

Substance groups	Relevant regulation		Content flag corresponding to the right	Intended use classification codes	Intended use classification	
	RoHS	ELV				
Lead (continued)	!		Y	Pb-R-19	Lead, exceeding 1000ppm in homogeneous material, in lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes.	
	!			Pb-R-20	Lead, exceeding 1000ppm in homogeneous material, in lead oxide in the glass envelope of Black Light Blue (BLB) lamps.	
	!			Pb-R-21	Lead, exceeding 1000ppm in homogeneous material, in lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.	
	!			Pb-R-22	Lead, exceeding 1000ppm in homogeneous material, in lead bound in crystal glass as defined in Annex I (Categories 1,2,3 and 4) of Council Directive 69/493/EEC.	
	!			Pb-R-23	Lead, exceeding 1000ppm in homogeneous material, 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	Lead, exceeding 1000ppm in homogeneous material, in lead oxide in seal fit used for making window assemblies for Argon and Krypton laser tubes.	
	!			Pb-R-25	Lead, exceeding 1000ppm in homogeneous material, in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers.	
	!			Pb-R-26	Lead, exceeding 1000ppm in homogeneous material, in cermet-based trimmer potentiometer elements.	
	!			Pb-R-27	Lead, exceeding 1000ppm in homogeneous material, in the plating layer of high voltage diodes on the basis of a zinc borate glass body.	
		!		Pb-E-1	Aluminum for machining purposes with a lead content up to 1.5% by weight	
		!		Pb-E-2	Aluminum for mechanical purposes with a lead content, exceeding 1000ppm in homogeneous material, up to 0.4% by weight	
		!		Pb-E-3	Lead, exceeding 1000ppm in homogeneous material, in bearing shells and bushes (alloy).	
		!		Pb-E-4	Batteries containing lead exceeding 1000ppm in homogeneous material.	
		!		Pb-E-5	Vibration dampers containing lead, exceeding 1000ppm in homogeneous material.	
		!		Pb-E-6	Lead, exceeding 1000ppm in homogeneous material, in vulcanising agents and stabilisers for elastomers in fluid handling and powertrain applications containing up to 0.5% lead by weight.	
		!		Pb-E-7	Lead, exceeding 1000ppm in homogeneous material, in bonding agents for elastomers in powertrain applications containing up to 0.5% lead by weight.	
		!		Pb-E-8	Solder containing lead, exceeding 1000ppm in homogeneous material, for electronic boards and other electric parts.	
		!		Pb-E-10	Valve seats containing lead exceeding 1000ppm in homogeneous material.	
		!		Pb-E-11	Pyrotechnic initiators containing lead exceeding 1000ppm in homogeneous material.	
				Pb-J-1	Containing lead above 300ppm in homogeneous material, for use in vinyl chloride wires.	
				Pb-J-2	Use in products for children 12 years old and younger, containing lead exceeding 300ppm per surveying unit.	
				Pb-J-3	Containing above 0.009% of lead per surface treatment layer such as coating in parts/material used in toys.	
				Pb-B-1	Batteries containing lead exceeding 40ppm by weight of the battery.	
				Pb-J-0	Cases containing intentionally added lead above 1000ppm in homogeneous material, excluding specified uses. (* Details in column on the right.)	
				Pb-J-99	Containing lead above 1000ppm in homogeneous material : Impurities/recycled materials/contamination	
		!			N	Pb-R-0
	!	!	Pb-RE-98	Containing 1000ppm or less of lead in homogeneous material : Impurities/recycled materials/contamination.		
Mercury	!		Y	Hg-R-1	Mercury in compact fluorescent lamps not exceeding 5mg per lamp.	
	!			Hg-R-2	Mercury in straight fluorescent lamps for general purposes not exceeding: -- halophosphate 10 mg -- triphosphate with normal lifetime 5 mg -- triphosphate with long lifetime 8 mg	
	!			Hg-R-3	Straight fluorescent lamps for special purposes, containing mercury exceeding 1000ppm in homogeneous material.	
	!			Hg-R-4	Containing mercury exceeding 1000ppm in homogeneous material, in other lamps not specifically mentioned in the Annex of Directive 2002/95/EC.	
	!			Hg-R-5	Mercury, exceeding 1000ppm in homogeneous material, used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display until 1 July 2010.	
		!		Hg-E-1	Discharge lamps, instrument panel displays containing mercury exceeding 1000ppm in homogeneous material.	
				Hg-B-1	Batteries containing mercury exceeding 1ppm by weight of the battery.	
				Hg-J-0	Cases containing intentionally added mercury above 1000ppm in homogeneous material, excluding specified uses. (* Details in column on the right.)	
				Hg-J-99	Containing mercury above 1000ppm in homogeneous material : Impurities/recycled materials/contamination.	
		!			N	Hg-R-0
		!	!	Hg-RE-98		Containing 1000ppm or less of mercury in homogeneous material. : Impurities/recycled materials/contamination.

Exhibit 3: Intended Use Classification List (Other substances in Annex A)

Substance groups	Relevant regulation		Content flag corresponding to the right	Intended use classification codes	Intended use classification
	RoHS	ELV			
Nickel			Y	Ni-J-1	Cases containing intentionally added nickel, for use consisting of long-term contact with skin.
			N	Ni-J-98	Cases containing nickel other than Ni-J-1.
Tributyl Tin Oxide (TBTO, CAS.No.56-35-9)			Y	A17-J-3	Cases containing above 0.1% TBTO by weight per surveying unit.
				A17-J-4	Cases containing intentionally added TBTO, excluding A17-J-3.
			N	A17-J-98	Cases containing TBTO other than A17-J-3 and A17-J-4.
Certain Tributyl Tins(TBT) & Triphenyl Tins(TPT)			Y	A18-J-3	Cases containing intentional addition of certain TBTs and TPTs.
			N	A18-J-98	Cases containing impurities.
Beryllium Oxide (CAS No. 1304-56-9)			Y	A19-J-0	Cases containing above 0.1% beryllium oxide by weight per surveying unit.
			N	A19-J-98	Cases containing up to 0.1% beryllium oxide by weight per surveying unit.
Diarsenic Pentoxide (CAS No. 1303-28-2)			Y	A20-J-0	Cases containing above 0.1% diarsenic pentoxide by weight per surveying unit.
			N	A20-J-98	Cases containing up to 0.1% diarsenic pentoxide by weight per surveying unit.
Diarsenic Trioxide (CAS No. 1327-53-3)			Y	A21-J-0	Cases containing above 0.1% diarsenic trioxide by weight per surveying unit.
			N	A21-J-98	Cases containing up to 0.1% diarsenic trioxide by weight per surveying unit.
Polybrominated Biphenyls (PBBs)			Y	B02-J-0	Cases containing intentionally added PBB exceeding 1000ppm in homogeneous material. (* Details in column on the right.)
				B02-J-99	Containing PBB above 1000ppm in homogeneous material. : Impurities/recycled materials/contamination
	!		N	B02-R-0	Cases containing 1000ppm or less of intentionally added PBB in homogeneous material. (* Details in column on the right.)
	!			B02-R-98	Containing 1000ppm or less of PBB in homogeneous material. : Impurities/recycled materials/contamination
Polybrominated Diphenyl ethers (PBDEs)			Y	B03-J-0	Cases containing intentionally added PBDE exceeding 1000ppm in homogeneous material. (* Details in column on the right.)
				B03-J-99	Containing PBDE above 1000ppm in homogeneous material. :Impurities/recycled materials/contamination
	!		N	B03-R-0	Cases containing 1000ppm or less of intentionally added PBDE in homogeneous material. (* Details in column on the right.)
	!			B03-R-98	Containing 1000ppm or less of PBDE in homogeneous material. :Impurities/recycled materials/contamination
Deca-BDE (PBDE) (CAS No.1163-19-5)			Y	B14-J-0	Cases where intentionally added to external models for televisions and computers.
			N	B14-J-98	Cases containing Deca-BDE other than B14-J-0.
Hexabromocyclododecane (HBCDD) and all major diastereoisomers (CAS No. 25637-99-4, CAS No. 3194-55-6)			Y	B11-J-0	Cases containing above 0.1% HBCDD and all major diastereoisomers by weight per surveying unit.
			N	B11-J-98	Cases containing up to 0.1% HBCDD and all major diastereoisomers by weight per surveying unit.
Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)			Y	B08-J-1	Cases containing above 0.1% brominated flame retardants (other than PBBs, PBDEs, or HBCDD) by weight per surveying unit.
			N	B08-J-98	Cases containing up to 0.1% brominated flame retardants (other than PBBs, PBDEs, or HBCDD) by weight per surveying unit.
Polychlorinated Biphenyls (PCBs) and specific substitutes (See Annex B of JIG-101 Ed 2.0)			Y	B05-J-1	Cases containing intentionally added PCBs and specific substitutes.
			N	B05-J-98	Cases containing impurities.
Polychlorinated Terphenyls (PCTs)			Y	B15-J-1	Cases containing intentionally added PCTs.
			N	B15-J-98	Cases containing impurities.
Polychlorinated Naphthalenes (more than 3 chlorine atoms)			Y	B06-J-1	Cases containing intentionally added polychlorinated naphthalenes.
			N	B06-J-98	Cases containing impurities.
Shortchain Chlorinated Paraffins (C10 – C13) (CAS No. 85535-84-8)			Y	B09-J-1	Cases containing above 0.1% shortchain chlorinated paraffins by weight per surveying unit.
			N	B09-J-98	Cases containing up to 0.1% shortchain chlorinated paraffins by weight per surveying unit.
Tris (2-chloroethyl) phosphate (TCEP, CAS.No.115-96-8)			Y	B16-J-0	Cases containing above 0.1% tris (2-chloroethyl) phosphate by weight per surveying unit.
			N	B16-J-98	Cases containing up to 0.1% tris (2-chloroethyl) phosphate by weight per surveying unit.
Perchlorates			Y	B12-J-0	Cases containing above 6ppb perchlorates by weight per surveying unit.
			N	B12-J-98	Cases containing up to 6ppb perchlorates by weight per surveying unit.

Exhibit 3: Intended Use Classification List (Other substances in Annex A) (Cont'd)

Substance groups	Relevant regulation		Content flag corresponding to the right	Intended use classification codes	Intended use classification
	RoHS	ELV			
Perfluorooctane sulfonate (PFOS)			Y	B13-J-0	PFOS intentionally added to reflex mirror coating and photoresists for the photolithography process.
				B13-J-1	PFOS intentionally added to photo coating used in printing plates, film, and documents.
				B13-J-2	PFOS intentionally added to mist suppressants used in chrome plating, chrome oxidation processing, and reverse etching.
				B13-J-3	PFOS intentionally added to mist suppressants used in electroless nickel-polytetrafluoroethylene (PTFE) plating.
				B13-J-4	PFOS intentionally added to mist suppressants used in etching of plastic base materials before metallic coating.
				B13-J-5	Cases intentionally containing above 0.005wt% of PFOS as a structural component of substances and compounds, excluding uses for B13-J-0, 1, 2, 3, and 4.
				B13-J-6	Cases intentionally containing above 0.1wt% of PFOS in homogeneous material as a constituent of moldings, excluding uses for B13-J-0, 1, 2, 3, and 4; for textiles and other covered materials, cases intentionally containing above 1µg/m ² of PFOS in lag, excluding uses for B13-J-0, 1, 2, 3, and 4.
			N	B13-J-7	Cases intentionally containing PFOS, excluding specified uses (B13-J-0, 1, 2, 3, 4, 5, and 6).
				B13-J-92	Cases containing PFOS as impurities in reflex mirror coating or photoresists for the photolithography process.
				B13-J-93	Cases containing PFOS as impurities in photo coating used in printing plates, film, and documents.
				B13-J-94	Cases containing PFOS as impurities in mist suppressants used in chrome plating, chrome oxidation processing, and reverse etching.
				B13-J-95	Cases containing PFOS as impurities in mist suppressants used in electroless nickel-polytetrafluoroethylene (PTFE) plating.
				B13-J-96	Cases containing PFOS as impurities in mist suppressants used in etching of plastic base materials before metallic coating.
				B13-J-97	Cases containing above 0.005wt% of PFOS as impurities as a structural component of substances and compounds, excluding uses for B13-J-92, 93, 94, 95, and 96.
		B13-J-99	Cases containing above 0.1wt% of PFOS as impurities in homogeneous material as a constituent of moldings, excluding uses for B13-J-92, 93, 94, 95, and 96; for textiles and other covered materials, cases containing above 1µg/m ² of PFOS as impurities in lag, excluding uses for B13-J-92, 93, 94, 95, and 96.		
		B13-J-98	Cases containing impurities of PFOS, excluding specified uses (B13-J-92, 93, 94, 95, 96, 97, and 99).		
Fluorinated greenhouse gases (PFC, SF6, HFC)			Y	B10-J-0	Cases containing intentionally added fluorinated greenhouse gases.
			N	B10-J-98	Cases containing impurities.
Polyvinyl Chloride (PVC)			Y	B07-J-1	Cases containing above 0.1% PVC by weight per surveying unit.
			N	B07-J-98	Cases containing up to 0.1% PVC by weight per surveying unit.
Asbestos			Y	C01-J-1	Cases containing intentionally added asbestos.
			N	C01-J-98	Cases containing impurities.
Azocolourants and azodyes which form certain aromatic amines			Y	C02-J-2	Leather products and fiber products containing azocolourants and azodyes, which form 0.003% of certain aromatic amines by weight.
			N	C02-J-98	Cases containing azocolourants and azodyes which form certain aromatic amines other than C02-J-2.
Ozone Depleting Substances			Y	C04-J-1	Cases containing intentionally added ozone depleting substances.
			N	C04-J-98	Cases containing impurities.
Radioactive Substances			Y	C06-J-1	Cases containing intentionally added radioactive substances.
			N	C06-J-98	Cases containing impurities.
Formaldehyde			Y	C07-J-0	Cases containing above 0.0075% formaldehyde by weight in fiber products.
				C07-J-1	Cases containing intentionally added formaldehyde (excluding C07-J-0 above).
			N	C07-J-98	Cases containing impurities (excluding C07-J-0 above).
Phenol 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (CAS No. 3846-71-7)			Y	C08-J-0	Cases containing intentionally added phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl).
			N	C08-J-98	Cases containing impurities.
Phthalates DEHP (CAS.No.117-81-7) DBP (CAS.No.84-74-2) BBP (CAS.No.85-68-7)			Y	C09-J-0	Cases containing above 0.1% phthalates by weight per surveying unit.
			N	C09-J-98	Cases containing up to 0.1% phthalates by weight per surveying unit.
Phthalates DINP (CAS No.28553-12-0, CAS No.68515-48-0) DIDP (CAS No.26761-40-0, CAS No. 68515-49-1) DNOP (CAS.No.117-84-0)			Y	C10-J-0	Articles used in products for children that contain above 0.1% phthalates by weight in homogeneous material.
			N	C10-J-98	Cases containing phthalates other than C10-J-0.

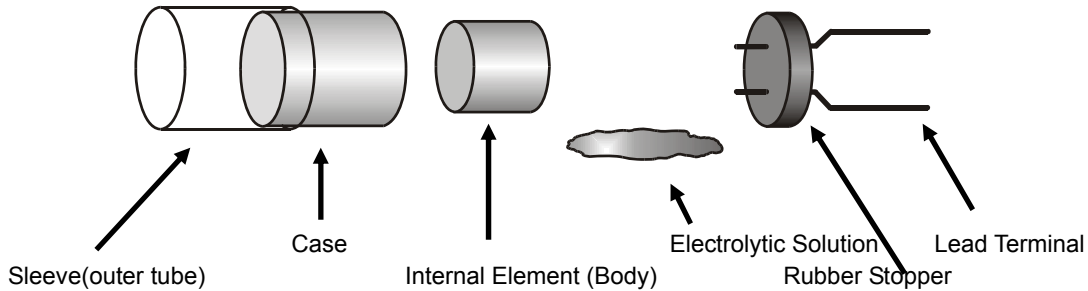
Exhibit 4: Examples of Application Areas

The following are example names of application areas that serve as references when completing the “application area” column of the survey.

Note: These examples do not represent all the application areas.

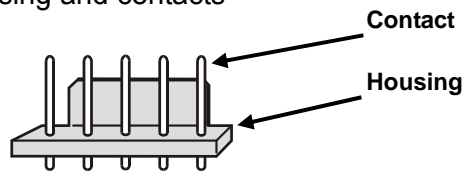
[Component Part Example 1] Aluminum electrolytic capacitor

Component parts: Sleeve, Case, Internal Element, Electrolytic Solution, Lead Terminal



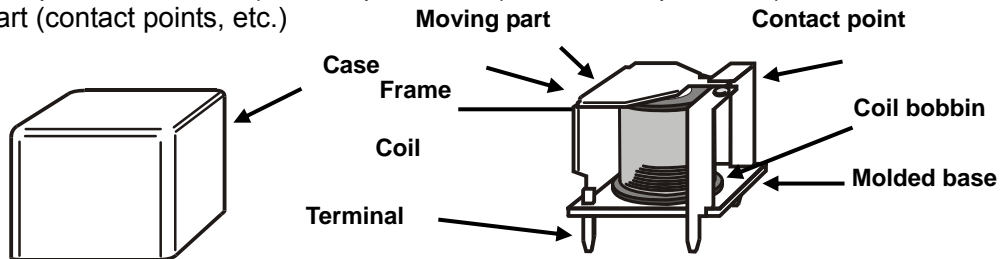
[Component Part Example 2] Connectors

Component parts: Housing and contacts



[Component Part Example 3] Switches, relays, and other parts with mechanical components

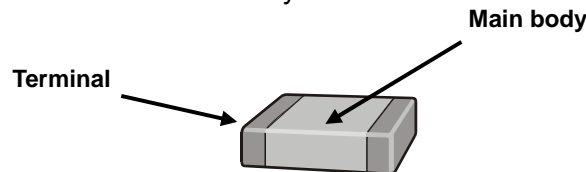
Component parts: Part case (molded plastic etc.), metal components (lever, frame, terminals, etc.), moving part (contact points, etc.)



* Please pay particular attention to special metals (alloys) used for plastic flame retardants, and electrical characteristics and lubrication of contact points.

[Component Part Example 4] Surface-mounted chip parts

Component parts: Terminal and main body

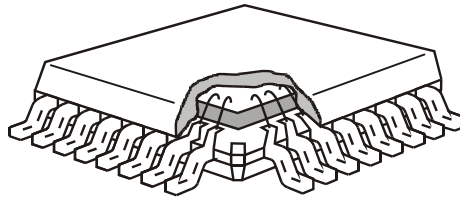


* The main body of the part is made of multiple materials and the substance concerned is present, break it down.
e.g.) Part (main body) → ceramic and internal electrode

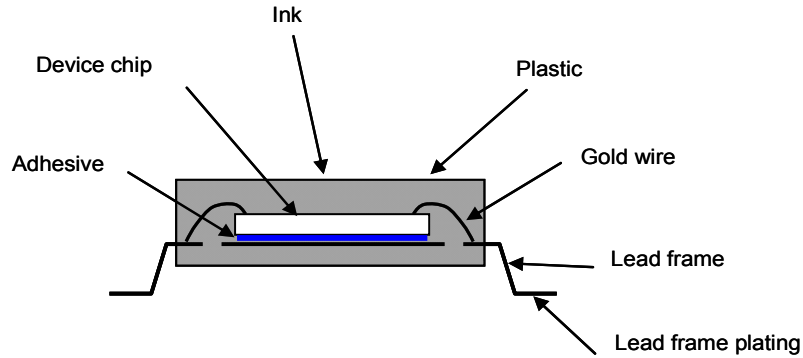
[Component Part Example 5] Semiconductor devices

Component parts: Lead terminal (lead frame, etc.), package main body (molded plastic, etc.), and device chip

Outward appearance:



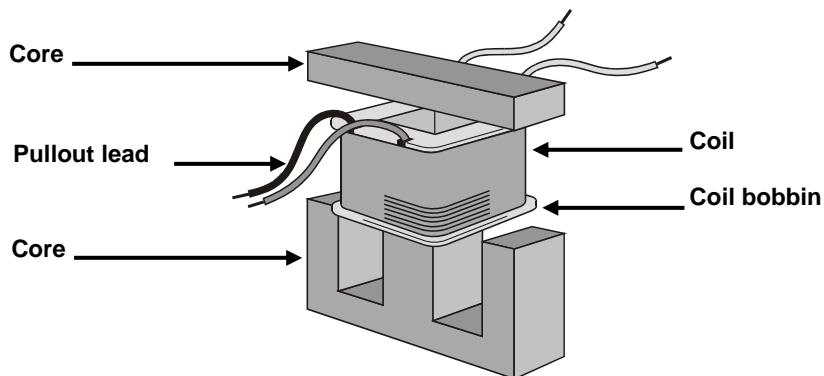
Cross section:



- * Please pay particular attention to any flame retardants in the package plastic, and the lead material and treatment
- * Make the response concerning the device chip as best you can

[Component Part Example 6] Transformers and inductors

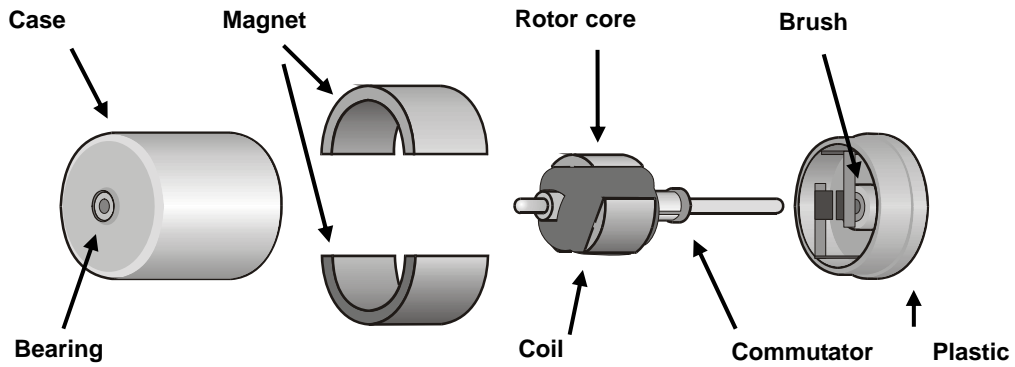
Component parts: Core, coil, bobbin, lead wire, insulator, case frame, etc.



- * Pay particular attention to flame retardants in plastic materials or insulating parts, impregnant in the coil, PVCs or flame retardants in the lead wire.

[Component Part Example 7] DC motors

Component parts: Part case (molded plastic, etc.), metal parts (shaft, rotor core, terminal, frame, etc.) brush, magnet, coil, and other



- * Pay particular attention to special metals (alloys) used for flame retardants in plastic, and electrical characteristics and lubrication in commutators, as well as grease in bearings.
- * Calculate the amount contained per part from the amounts contained in each of the part components, when the substance is contained in lead wire and electronic circuits.

[Component Part Example 8] Electrical cable (power cord)

Component parts: Conductor, plating, insulator (interior coating), and jacket (exterior coating)

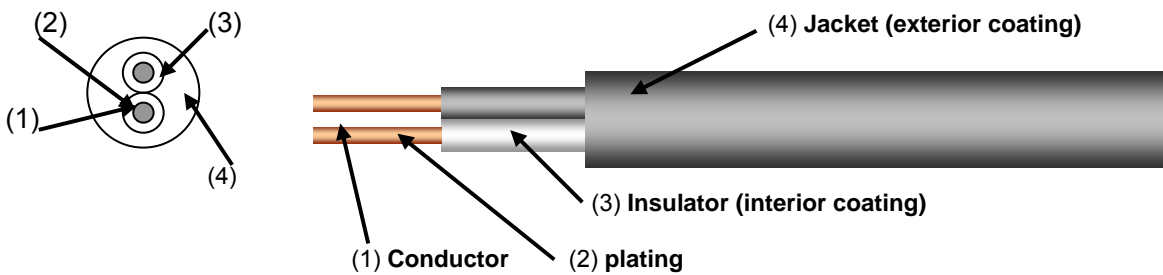


Exhibit 5: JIG Detailed Chemical Lists (with Metal Conversion Factor)

Quotation from Annex B of JIG-101Ed 2.0 (The category listing order is different from JIG.)

1/11 Note) If there is * in the column of Metal Conversion Factor, see Note) of 2) in "(5) Substance Information" of the text.

Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	A05	Cadmium/cadmium compounds	Cadmium	1.000	7440-43-9
			Cadmium oxide	0.875	1306-19-0
			Cadmium sulfide	0.778	1306-23-6
			Cadmium chloride	0.613	10108-64-2
			Cadmium sulfate	0.539	10124-36-4
			Other cadmium compounds	-	-
R	A07	Chromium VI compounds	Chromium (VI) oxide	0.520	1333-82-0
			Barium chromate	0.205	10294-40-3
			Calcium chromate	0.333	13765-19-0
			Chromium trioxide	0.520	1333-82-0
			Lead (II) chromate	0.161	7758-97-6
			Sodium chromate	0.321	7775-11-3
			Sodium dichromate	0.397	10588-01-9/ EC No.234-190-3
			Strontium chromate	0.255	7789-06-2
			Potassium dichromate	0.353	7778-50-9
			Potassium chromate	0.268	7789-00-6
			Zinc chromate	0.287	13530-65-9
			Other hexavalent chromium compounds	-	-
R	A09	Lead/lead compounds	Lead	1.000	7439-92-1
			Lead(II) sulfate	0.683	7446-14-2
			Lead(II) carbonate	0.775	598-63-0
			Lead hydroxidcarbonate	0.801	1319-46-6
			Lead acetate	0.637	301-04-2
			Lead (II) acetate, trihydrate	0.546	6080-56-4
			Lead phosphate	0.766	7446-27-7
			Lead selenide	0.724	12069-00-0
			Lead (IV) oxide	0.866	1309-60-0
			Lead (II,IV) oxide	0.907	1314-41-6
			Lead (II) sulfide	0.866	1314-87-0
			Lead (II) oxide	0.928	1317-36-8
			Lead(II) carbonate basic	0.801	1319-46-6
			Lead hydroxidcarbonate	0.801	1344-36-1
			Lead(II) phosphate	0.766	7446-27-7
			Lead(II) chromate	0.641	7758-97-6
			Lead(II) titanate	0.686	12060-00-3
			Lead sulfate,sulphuric acid, lead salt	1.000	15739-80-7
			Lead sulphate,tribasic	0.850	12202-17-4
			Lead stearate	0.268	1072-35-1
Other lead compounds	-	-			
R	A10	Mercury/mercury compounds	Mercury	1.000	7439-97-6
			Mercuric chloride	-	33631-63-9
			Mercury (II) chloride	0.739	7487-94-7
			Mercuric sulfate	0.676	7783-35-9
			Mercuric nitrate	0.618	10045-94-0
			Mercuric (II) oxide	0.926	21908-53-2
			Mercuric sulfide	0.862	1344-48-5
			Other mercury compounds	-	-
R	A11	Nickel	Nickel	1.000	7440-02-0

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	A17	Tributyl Tin Oxide (TBTO)	Bis(tri-n-butyltin) oxide	*	56-35-9
R	A18	Certain Tributyl Tin (TBT) and Triphenyl Tin (TPT) compounds	Triphenyltin=N, N-dimethyldithiocarbamate	-	1803-12-9
			Triphenyltinfluoride	-	379-52-2
			Triphenyltinacetate	-	900-95-8
			Triphenyltinchloride	-	639-58-7
			Triphenyltinhydroxide	-	76-87-9
			Triphenyltin fattyacid((9-11)salt)	-	18380-71-7
				-	18380-72-8
				-	47672-31-1
				-	94850-90-5
			Triphenyltinchloroacetate	-	7094-94-2
			Tributyltinmethacrylate	-	2155-70-6
			Bis(tributyltin)fumalate	-	6454-35-9
			Tributyltinfluoride	-	1983-10-4
			Bis(tributyltin)2,3-dibromosuccinate	-	31732-71-5
			Tributyltinacetate	-	56-36-0
			Tributyltinlaurate	-	3090-36-6
			Bis(tributyltin)phthalate	-	4782-29-0
			Copolymer of alkyl(c=8) acrylate, methyl methacrylate and tributyltin methacrylate	-	67772-01-4
			Tributyltinsulfamate	-	6517-25-5
			Bis(tributyltin)maleate	-	14275-57-1
Tributyltinchloride	-	1461-22-9, 7342-38-3			
Tributyltin cyclopentane carbonate=mixture	-	85409-17-2			
Tributyltin-1, 2,3,4,4a, 4b, 5,6,10,10a-decahydro-7-isopropyl-1, 4a-dimethyl-1-phenanthrenecarboxylatemix	-	26239-64-5			
I	A19	Beryllium Oxide (BeO)	Beryllium oxide	-	1304-56-9
R	A20	Diarsenic Pentoxide	Arsenic pentoxide	*	1303-28-2
R	A21	Diarsenic Trioxide	Arsenic trioxide	*	1327-53-3
R	B02	Polybrominated Biphenyls (PBBs)	Polybrominated Biphenyls	-	59536-65-1
			Dibromobiphenyl	-	92-86-4
			2-Bromobiphenyl	-	2052-07-5
			3-Bromobiphenyl	-	2113-57-7
			4-Bromobiphenyl	-	92-66-0
			Tribromobiphenyl	-	59080-34-1
			Tetrabromobiphenyl	-	40088-45-7
			Pentabromobiphenyl	-	56307-79-0
			Hexabromobiphenyl	-	59080-40-9
			hexabromo-1,1-biphenyl	-	36355-01-8

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	B02	Polybrominated Biphenyls (PBBs) (Cont'd)	Firemaster FF-1	-	67774-32-7
			Heptabromobiphenyl	-	35194-78-6
			Octabromobiphenyl	-	61288-13-9
			Nonabiphenyl	-	27753-52-2
			Decabromobiphenyl	-	13654-09-6
R	B03	Polybrominated Diphenylethers (PBDEs)	Bromodiphenyl ether	-	101-55-3
			Dibromodiphenyl ethers	-	2050-47-7
			Tribromodiphenyl ether	-	49690-94-0
			Tetrabromodiphenyl ethers	-	40088-47-9
			Pentabromodiphenyl ether (note: Commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides.)	-	32534-81-9 (CAS number used for commercial grades of PeBDPO)
			Hexabromodiphenyl ether	-	36483-60-0
			Heptabromodiphenylether	-	68928-80-3
			Octabromodiphenyl ether	-	32536-52-0
			Nonabromodiphenylether	-	63936-56-1
			Decabromodiphenyl ether	-	1163-19-5
R	B14	Deca-Bromodiphenylether (Deca-BDE) (PBDE)	Decabromodiphenyl ether	-	1163-19-5
R	B11	Hexabromocyclododecane(HBCDD) and all major diastereoisomers	Hexabromocyclododecane (HBCDD)	-	25637-99-4, 3194-55-6
			alpha-hexabromocyclododecane	-	134237-50-6
			beta-hexabromocyclododecane	-	134237-51-7
			gamma-hexabromocyclododecane	-	134237-52-8
I	B08	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	Brominated flame retardant w hich comes under notation of ISO 1043-4 code number FR(14)[Aliphatic/alicyclic brominated compounds]	-	-
			Brominated flame retardant w hich comes under notation of ISO 1043-4 code number FR(15)[Aliphatic/alicyclic brominated compounds in combination w ith antimony compounds]	-	-
			Brominated flame retardant w hich comes under notation of ISO 1043-4 code number FR(16)[Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls]	-	-
			Brominated flame retardant w hich comes under notation of ISO 1043-4 code number FR(17)[Aromatic brominated compounds excluding brominated diphenyl ether and biphenyls] in combination w ith antimony compounds]	-	-
			Brominated flame retardant w hich comes under notation of ISO 1043-4 code number FR(22)[Aliphatic/alicyclic chlorinated and brominated compounds]	-	-

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
I	B08	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) (Cont'd)	Brominated flame retardant w hich comes under notation of ISO 1043-4 code number FR(42)[Brominated organic phosphorus compounds]	-	-
			Poly(2,6-dibromo-phenylene oxide)	-	69882-11-7
			Tetra-decabromo-diphenoxy-benzene	-	58965-66-5
			1,2-Bis(2,4,6-tribromo-phenoxy) ethane	-	37853-59-1
			3,5,3',5'-Tetrabromo-bisphenol A (TBBA)	-	79-94-7
			TBBA, unspecified	-	30496-13-0
			TBBA-epichlorhydrin oligomer	-	40039-93-8
			TBBA-TBBA-diglycidyl-ether oligomer	-	70682-74-5
			TBBA carbonate oligomer	-	28906-13-0
			TBBA carbonate oligomer, phenoxy end capped	-	94344-64-2
			TBBA carbonate oligomer, 2,4,6-tribromo-phenol terminated	-	71342-77-3
			TBBA-bisphenol A-phosgene polymer	-	32844-27-2
			Brominated epoxy resin end-capped w ith tribromophenol	-	139638-58-7
			Brominated epoxy resin end-capped w ith tribromophenol	-	135229-48-0
			TBBA-(2,3-dibromo-propyl-ether)	-	21850-44-2
			TBBA bis-(2-hydroxy-ethyl-ether)	-	4162-45-2
			TBBA-bis-(allyl-ether)	-	25327-89-3
			TBBA-dimethyl-ether	-	37853-61-5
			Tetrabromo-bisphenol S	-	39635-79-5
			TBBS-bis-(2,3-dibromo-propyl-ether)	-	42757-55-1
			2,4-Dibromo-phenol	-	615-58-7
			2,4,6-tribromo-phenol	-	118-79-6
			Pentabromo-phenol	-	608-71-9
			2,4,6-Tribromo-phenyl-allyl-ether	-	3278-89-5
			Tribromo-phenyl-allyl-ether, unspecified	-	26762-91-4
			Bis(methyl)tetrabromo-phtalate	-	55481-60-2
			Bis(2-ethylhexyl)tetrabromo-phtalate	-	26040-51-7
			2-Hydroxy-propyl-2-(2-hydroxy-ethoxy)-ethyl-TBP	-	20566-35-2
			TBPA, glycol-and propylene-oxide esters	-	75790-69-1
			N,N'-Ethylene -bis-(tetrabromo-phthalimide)	-	32588-76-4
Ethylene-bis(5,6-dibromo-norbornane-2,3-dicarboximide)	-	52907-07-0			
2,3-Dibromo-2-butene-1,4-diol	-	3234-02-4			
Dibromo-neopentyl-glycol	-	3296-90-0			

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
I	B08	Brominated flame retardants (other than PBBs, PBDEs, or HBCDD) (Cont'd)	Dibromo-propanol	-	96-13-9
			Tribromo-neopentyl-alcohol	-	36483-57-5
			Poly tribromo-styrene	-	57137-10-7
			Tribromo-styrene	-	61368-34-1
			Dibromo-styrene grafted PP	-	171091-06-8
			Poly-dibromo-styrene	-	31780-26-4
			Bromo-/Chloro-paraffins	-	68955-41-9
			Bromo-/Chloro-alpha-olefin	-	82600-56-4
			Vinylbromide	-	593-60-2
			Tris-(2,3-dibromo-propyl)-isocyanurate	-	52434-90-9
			Tris(2,4-Dibromo-phenyl) phosphate	-	49690-63-3
			Tris(tribromo-neopentyl) phosphate	-	19186-97-1
			Chlorinated and brominated phosphate ester	-	125997-20-8
			Pentabromo-toluene	-	87-83-2
			Pentabromo-benzyl bromide	-	38521-51-6
			1,3-Butadiene homopolymer, brominated	-	68441-46-3
			Pentabromo-benzyl-acrylate, monomer	-	59447-55-1
			Pentabromo-benzyl-acrylate, polymer	-	59447-57-3
			Decabromo-diphenyl-ethane	-	84852-53-9
			Tribromo-bisphenyl-maleinimide	-	59789-51-4
			Brominated trimethylphenyl- indane	-	-
Other Brominated Flame Retardants	-	-			
Tetrabromo-chyclo-octane	-	31454-48-5			
1,2-Dibromo-4-(1,2 dibromo-methyl)-cyclo-hexane	-	3322-93-8			
TBPA Na salt	-	25357-79-3			
Tetrabromo phthalic-anhydride	-	632-79-1			
R	B05	Polychlorinated Biphenyls (PCBs) and specific substitutes	Polychlorinated Biphenyls	-	1336-36-3
			Monomethyl-tetrachloro-diphenyl methane (Ugilec 141)	-	76253-60-6
			Monomethyl-dichloro-diphenyl methane (Ugilec 121, Ugilec 21)	-	81161-70-8
			Monomethyl-dibromo-diphenyl methane (DBBT)	-	99688-47-8
R	B15	Polychlorinated Terphenyls (PCTs)	Polychlorinated Terphenyls (all isomers and congeners)	-	61788-33-8
R	B06	Polychlorinated Naphthalenes (more than 3 chlorine atoms)	Polychlorinated Naphthalenes	-	70776-03-3
			Other polychlorinated Naphthalenes	-	-
R	B09	Shortchain Chlorinated Paraffins (C10 – C13)	Chlorinated paraffins (C10-13)	-	85535-84-8
A	B16	Tris(2-chloroethyl) phosphate (TCEP)	Tris (2-chloroethyl) phosphate (TCEP)	-	115-96-8
R	B12	Perchlorates	Lithium perchlorate	-	7791-03-9
			Other perchlorate compounds	-	-

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	B13	Perfluorooctane sulfonate (PFOS)	Perfluorooctane Sulfonates (PFOS) C ₈ F ₁₇ SO ₂ X, where X = OR, NR or other derivative	-	-
R	B10	Fluorinated greenhouse gases (PFC, SF6, HFC)	Carbon tetrafluoride (Perfluoromethane)	-	75-73-0
			Perfluoroethane (Hexafluoroethane)	-	76-16-4
			Perfluoropropane (Octafluoropropane)	-	76-19-7
			Perfluorobutane (Decafluorobutane)	-	355-25-9
			Perfluoropentane (Dodecafluoropentane)	-	678-26-2
			Perfluorohexane (Tetradecafluorohexane)	-	355-42-0
			Perfluorocyclobutane	-	115-25-3
			Sulfur Hexafluoride (SF6)	-	2551-62-4
			Trifluoromethane - (HFC-23)	-	75-46-7
			Difluoromethane - (HFC-32)	-	75-10-5
			Methyl fluoride - (HFC-41)	-	593-53-3
			2H,3H-Decafluoropentane - (HFC-43-10mee)	-	138495-42-8
			Pentafluoroethane (HFC-125)	-	354-33-6
			1,1,2,2-Tetrafluoroethane - (HFC-134)	-	359-35-3
			1,1,1,2-Tetrafluoroethane - (HFC-134a)	-	811-97-2
			1,1-Difluoroethane - (HFC-152a)	-	75-37-6
			1,1,2-Trifluoroethane-(HFC-143)	-	430-66-0
			1,1,1-Trifluoroethane - (HFC-143a)	-	420-46-2
			2H-Heptafluoropropane- (HFC-227ea)	-	431-89-0
			1,1,1,2,2,3-hexafluoro-propane (HFC-236cb)	-	677-56-5
			1,1,1,2,3,3-Hexafluoropropane - (HFC-236ea)	-	431-63-0
1,1,1,3,3,3-Hexafluoropropane - (HFC-236fa)	-	690-39-1			
1,1,2,2,3-Pentafluoropropane - (HFC-245ca)	-	679-86-7			
1,1,1,3,3-Pentafluoropropane - (HFC-245fa)	-	460-73-1			
1,1,1,3,3-Pentafluorobutane - (HFC-365mfc)	-	406-58-6			
I	B07	Polyvinyl Chloride (PVC)	Polyvinyl chloride (PVC)	-	9002-86-2
R	C01	Asbestos	Asbestos	-	1332-21-4
			Actinolite	-	77536-66-4
			Amosite (Grunerite)	-	12172-73-5
			Anthophyllite	-	77536-67-5
			Chrysotile	-	12001-29-5
			Crocidolite	-	12001-28-4
			Tremolite	-	77536-68-6
R	C02	Azocolourants and azodyes which form certain aromatic amines	biphenyl-4-ylamine	-	92-67-1
			Benzidine	-	92-87-5
			4-chloro-o-toluidine	-	95-69-2
			2-naphthylamine	-	91-59-8
			o-aminoazotoluene	-	97-56-3

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	C02	Azocolourants and azodyes which form certain aromatic amines (Cont'd)	5-nitro-o-toluidine	-	99-55-8
			4-chloroaniline	-	106-47-8
			4-methoxy-m-phenylenediamine	-	615-05-4
			4,4'-methylenedianiline	-	101-77-9
			3,3'-dichlorobenzidine	-	91-94-1
			3,3'-dimethoxybenzidine	-	119-90-4
			3,3'-dimethylbenzidine	-	119-93-7
			4,4'-methylenedi-o-toluidine	-	838-88-0
			6-methoxy-m-toluidine	-	120-71-8
			4,4'-methylene-bis(2-chloroaniline)	-	101-14-4
			4,4'-oxydianiline	-	101-80-4
			4,4'-thiodianiline	-	139-65-1
			o-toluidine	-	95-53-4
			4-methyl-m-phenylenediamine	-	95-80-7
			2,4,5-trimethylaniline	-	137-17-7
			o-anisidine	-	90-04-0
			4-amino azobenzene	-	60-09-3
R	C04	Ozone Depleting Substances/Isomers	Trichlorofluoromethane	-	75-69-4
			Dichlorodifluoromethane (CFC12)	-	75-71-8
			Chlorotrifluoromethane (CFC 13)	-	75-72-9
			Pentachlorofluoroethane (CFC 111)	-	354-56-3
			Tetrachlorodifluoroethane (CFC 112)	-	76-12-0
			Trichlorotrifluoroethane (CFC 113)	-	354-58-5
			1,1,2 Trichloro-1,2,2 trifluoroethane	-	76-13-1
			Dichlorotetrafluoroethane (CFC 114)	-	76-14-2
			Monochloropentafluoroethane (CFC 115)	-	76-15-3
			Heptachlorofluoropropane (CFC 211)	-	422-78-6
				-	135401-87-5
			Hexachlorodifluoropropane (CFC 212)	-	3182-26-1
			Pentachlorotrifluoropropane (CFC 213)	-	2354-06-5
				-	134237-31-3
			Tetrachlorotetrafluoropropane (CFC 214)	-	29255-31-0
			1,1,1,3-Tetrachlorotetrafluoropropane	-	2268-46-4
			Trichloropentafluoropropane (CFC 215)	-	1599-41-3
			1,1,1-Trichloropentafluoropropane	-	4259-43-2
			1,2,3-Trichloropentafluoropropane	-	76-17-5
			Dichlorohexafluoropropane (CFC 216)	-	661-97-2
			Monochloroheptafluoropropane (CFC 217)	-	422-86-6
			Bromochlorodifluoromethane (Halon 1211)	-	353-59-3
			Bromotrifluoromethane (Halon 1301)	-	75-63-8
			Dibromotetrafluoroethane (Halon 2402)	-	124-73-2
			Carbon Tetrachloride (Tetrachloromethane)	-	56-23-5
			1,1,1, - Trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane	-	71-55-6
			Bromomethane (Methyl Bromide)	-	74-83-9

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	C04	Ozone Depleting Substances/Isomers (Cont'd)	Dibromofluoromethane	-	1868-53-7
			Bromodifluoromethane	-	1511-62-2
			Bromofluoromethane	-	373-52-4
			Tetrabromofluoroethane	-	306-80-9
			Tribromodifluoroethane	-	-
			Dibromotrifluoroethane	-	354-04-1
			Bromotetrafluoroethane	-	124-72-1
			Tribromofluoroethane	-	-
			Dibromodifluoroethane	-	75-82-1
			Bromotrifluoroethane	-	421-06-7
			Dibromofluoroethane	-	358-97-4
			Bromodifluoroethane	-	420-47-3
			Bromofluoroethane	-	762-49-2
			Hexabromofluoropropane	-	-
			Pentabromodifluoropropane	-	-
			Tetrabromotrifluoropropane	-	-
			Tribromotetrafluoropropane	-	-
			Dibromopentafluoropropane	-	431-78-7
			Bromohexafluoropropane	-	2252-78-0
			Pentabromofluoropropane	-	-
			Tetrabromodifluoropropane	-	-
			Tribromotrifluoropropane	-	-
			Dibromotetrafluoropropane	-	-
			Bromopentafluoropropane	-	460-88-8
			Tetrabromofluoropropane	-	-
			Tribromodifluoropropane	-	70192-80-2
			Dibromotrifluoropropane	-	431-21-0
			Bromotetrafluoropropane	-	679-84-5
			Tribromofluoropropane	-	75372-14-4
			Dibromodifluoropropane	-	460-25-3
Bromotrifluoropropane	-	421-46-5			
Dibromofluoropropane	-	51584-26-0			
Bromodifluoropropane	-	-			
Bromofluoropropane	-	1871-72-3			
Bromochloromethane	-	74-97-5			
R	C04	Ozone Depleting Substances - Hydrochlorofluorocarbons/Isomers	Dichlorofluoromethane (HCFC 21)	-	75-43-4
			Chlorodifluoromethane (HCFC 22)	-	75-45-6
			Chlorofluoromethane (HCFC 31)	-	593-70-4
			Tetrachlorofluoroethane (HCFC 121)	-	134237-32-4
			1,1,1,2-tetrachloro-2-fluoroethane (HCFC 121a)	-	354-11-0
			1,1,2,2-tetrachloro-1-fluoroethane	-	354-14-3
			Trichlorodifluoroethane (HCFC 122)	-	41834-16-6
			1,2,2-trichloro-1,1-difluoroethane	-	354-21-2
			Dichlorotrifluoroethane(HCFC 123)	-	34077-87-7
			Dichloro-1,1,2-trifluoroethane	-	90454-18-5
			1,1-dichloro-2,2,2-trifluoroethane	-	306-83-2
			1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)	-	354-23-4
			1,1-dichloro-1,2,2-trifluoroethane (HCFC-123b)	-	812-04-4

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	C04	Ozone Depleting Substances - Hydrochlorofluorocarbons/Isomers (Cont'd)	Chlorotetrafluoroethane (HCFC 124)	-	63938-10-3
			2-chloro-1,1,1,2-tetrafluoroethane	-	2837-89-0
			1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a)	-	354-25-6
			Trichlorofluoroethane (HCFC 131)	-	27154-33-2;(134237-34-6)
			1-Fluoro-1,2,2-trichloroethane	-	359-28-4
			1,1,1-trichloro-2-fluoroethane (HCFC131b)	-	811-95-0
			1-Chloro-1-fluoroethane (HCFC-151)	-	1615-75-4
			Dichlorodifluoroethane (HCFC 132)	-	25915-78-0
			1,2-dichloro-1,1-difluoroethane (HCFC 132b)	-	1649-08-7
			1,1-dichloro-1,2-difluoroethane (HCFC 132c)	-	1842-05-3
			1,1-dichloro-2,2-difluoroethane	-	471-43-2
			1,2-dichloro-1,2-difluoroethane	-	431-06-1
			Chlorotrifluoroethane (HCFC 133)	-	1330-45-6
			1-chloro-1,2,2-trifluoroethane	-	1330-45-6
			2-chloro-1,1,1-trifluoroethane (HCFC-133a)	-	75-88-7
			Dichlorofluoroethane(HCFC 141)	-	1717-00-6; (25167-88-8)
			1,1-dichloro-1-fluoroethane (HCFC-141b)	-	1717-00-6
			1,2-dichloro-1-fluoroethane	-	430-57-9
			Chlorodifluoroethane (HCFC 142)	-	25497-29-4
			1-chloro-1,1-difluoroethane (HCFC142b)	-	75-68-3
			1-chloro-1,2-difluoroethane (HCFC142a)	-	25497-29-4
			Hexachlorofluoropropane (HCFC 221)	-	134237-35-7
			Pentachlorodifluoropropane (HCFC 222)	-	134237-36-8
			Tetrachlorotrifluoropropane (HCFC 223)	-	134237-37-9
			Trichlorotetrafluoropropane (HCFC 224)	-	134237-38-0
			Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC 225)	-	127564-92-5; (2713-09-9)
			2,2-Dichloro-1,1,1,3,3-pentafluoropropane(HCFC 225aa)	-	128903-21-9
2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC 225ba)	-	422-48-0			
1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225bb)	-	422-44-6			
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC 225ca)	-	422-56-0			
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC 225cb)	-	507-55-1			
1,1-Dichloro-1,2,2,3,3-pentafluoropropane(HCFC 225cc)	-	13474-88-9			
1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC 225da)	-	431-86-7			
1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225ea)	-	136013-79-1			
1,1-Dichloro-1,2,3,3,3-pentafluoropropane(HCFC 225eb)	-	111512-56-2			

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	C04	Ozone Depleting Substances - Hydrochlorofluorocarbons/Isomers (Cont'd)	Chlorohexafluoropropane (HCFC 226)	-	134308-72-8
			Pentachlorofluoropropane (HCFC 231)	-	134190-48-0
			Tetrachlorodifluoropropane (HCFC 232)	-	134237-39-1
			Trichlorotrifluoropropane (HCFC 233)	-	134237-40-4
			1,1,1-Trichloro-3,3,3-trifluoropropane	-	7125-83-9
			Dichlorotetrafluoropropane (HCFC 234)	-	127564-83-4
			Chloropentafluoropropane (HCFC 235)	-	134237-41-5
			1-Chloro-1,1,3,3,3-pentafluoropropane	-	460-92-4
			Tetrachlorofluoropropane (HCFC 241)	-	134190-49-1
			Trichlorodifluoropropane (HCFC 242)	-	134237-42-6
			Dichlorotrifluoropropane (HCFC 243)	-	134237-43-7
			1,1-dichloro-1,2,2-trifluoropropane	-	7125-99-7
			2,3-dichloro-1,1,1-trifluoropropane	-	338-75-0
			3,3-Dichloro-1,1,1-trifluoropropane	-	460-69-5
			Chlorotetrafluoropropane (HCFC 244)	-	134190-50-4
			3-chloro-1,1,2,2-tetrafluoropropane	-	679-85-6
			Trichlorofluoropropane (HCFC 251)	-	134190-51-5
			1,1,3-trichloro-1-fluoropropane	-	818-99-5
			Dichlorodifluoropropane (HCFC 252)	-	134190-52-6
			R	C06	Radioactive substances
Radon	-	10043-92-2			
Americium-241	-	14596-10-2			
Thorium-232	-	7440-29-1			
Cesium (Radioactive Isotopes only)	-	7440-46-2 (Cs-137 010045-97-3)			
Strontium (Radioactive Isotopes only)	-	(elemental 7440-24-6) (Sr-90 10098-97-2)			
Other radioactive substances	-	-			
R	C07	Formaldehyde	Formaldehyhde	-	50-00-0

Exhibit 5: (Cont'd)

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Criteria	JGPSSI Classification Number	Substance Group <JIG-101 Ed 2.0 Annex A Table A>	Substance name <JIG-101 Ed 2.0 Annex B>	Metal Conversion Factor	CAS Number
R	C08	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	-	3846-71-7
R	C09	Phthalates DEHP,DBP,BBP	Bis (2-ethylhexyl) phthalate (DEHP)	-	117-81-7
			Dibutylphthalate (DBP)	-	84-74-2
			Butyl benzyl phthalate (BBP)	-	85-68-7
R	C10	Phthalates DINP,DIDP,DNOP	Diisononyl phthalate (DINP)	-	28553-12-0 68515-48-0
			1,2-Benzenedicarboxylic acid diisodecyl ester (DIDP)	-	26761-40-0 68515-49-1
			Di-n-octyl phthalate (DNOP)	-	117-84-0

Exhibit 6: Survey and Response Format (Data Format)

Output file (JGP file) Specifications

1 Line code

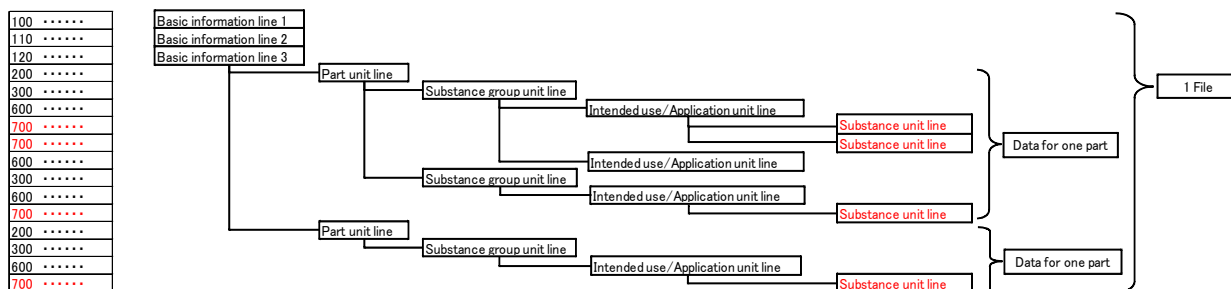
Basic information line 1	Line code 100	
Basic information line 2	Line code 110	
Basic information line 3	Line code 120	
Part unit line	Line code 200	
Substance groups unit line	Line code 300	
Substance unit line	Line code 400	(not used)
Material unit line	Line code 500	(not used)
Intended use/Application unit line	Line code 600	
Substance unit line	Line code 700	

Setting up eight lines above-mentioned lines, the line code is described at the head of line.
The relationship of the data are assigned by the order of the lines.

2 Composition of JGP file Ver.4.00 for chemical substances

- The basic information lines 1, 2 and 3 should be described in one line for one file.
- Two or more parts can be existed in one line.
- Two or more substance groups can be related to one part.
- Two or more intended use/application can be related to one substance group.
- **Two or more substance can be related to one more intended use/application.**
- The substance group of a part is described in a substance group unit line located after a part unit line.
- The intended use/application related to one substance group is described in intended use/application line located after a substance group line.
- TAB is used to separate data in each line.

Image of JGP file



Basic information line 1

Data order	1	2	3	4	5	6	7	8	9	10
Content	Line code	Language flag	format version Note 1:	Reference No.	Date of entry	Parts mass unit *1	Substance mass unit *1	Tool name	Respondent's date of data entry	Response type
Byte	3	1	5 and below	40 and below	10	1	1	40 and below	10	1
Remarks	100	0 : Japanese 1 : English 2 : Chinese	4.00		YYYY/MM/DD	1 :mg 2 :g 3 :kg 4 :t	1 :mg 2 :g 3 :kg 4 :t		YYYY/MM/DD	Fixed with 0. Note: For Tool Ver.3. 0 : Standard type 1 : Detailed type

Note 1: When the intended use application list is updated, raise the number of the first decimal place. Raise the number of the second decimal place for other change.

Basic information line 2

Data order	1	2	3	4	5	6	7	8	9	10
Content	Line code	Requester Division Name (English)	Requester Contact Name (English)	Requester Telephone No.	Requester Fax No.	Requester Email Address	Requester's management items 1	Requester's management items 2	Requester's management items 3	Respondent Company Name (English)
Byte	3	200 and below	200 and below	100 and below	100 and below	100 and below	80 and below	80 and below	80 and below	200 and below
Remarks	110									
	11	12	13	14	15	16	17	18	19	20
	Respondent Address (English)	Respondent Division Name (English)	Respondent Contact Name (English)	Respondent Telephone No.	Respondent Fax No.	Respondent Email Address	Requester's management items 4	Requester's management items 5	Requester's management items 6	Requester's Company Name (English)
	200 and below	200 and below	200 and below	100 and below	100 and below	100 and below	80 and below	80 and below	80 and below	200 and below
	21	22	23	24						
	Requester DUNS Number	Respondent DUNS Number	Additional information regarding survey responses (English)	Message from requester (English)						
	9	9	200 and below	200 and below						

Basic information line 3

Data order	1	2	3	4	5	6	7	8	9	10
Content	Line code	Requester Division Name (Japanese/Chinese)	Requester Contact Name (Japanese/Chinese)	Respondent Company Name (Japanese/Chinese)	Respondent Address (Japanese/Chinese)	Respondent Division Name (Japanese/Chinese)	Respondent Contact Name (Japanese/Chinese)	Requester's Company Name (Japanese/Chinese)	Additional information regarding survey responses (Japanese/Chinese)	Message from requester (Japanese/Chinese)
Byte	3	200 and below	40 and below	200 and below	200 and below	200 and below	40 and below	200 and below	200 and below	200 and below
Remarks	120									

Part unit line

Data order	1	2	3	4	5	6	7	8	9	10
Content	Line code	Product/subpart number of requester	Product / subpart/material name of requester	Requester's Item1	Requester's Item2	Requester's Item3	Manufacturer Name	Respondent's product/subparts/material number	Respondent's Item1	Respondent's Item2
Byte	3	200 and below	160 and below	40 and below	40 and below	40 and below	200 and below	200 and below	200 and below	200 and below
Remarks	200									
	11	12	13	14	15	16	17	18	19	20
	Respondent's Item3	Surveying Unit	Survey Unit Mass (g/unit)	Use of ozone-depleting substances *1	List A substances contained *1	Column 7 *1	Column 8 *1	Column 9 *1	Column 10 *1	Column 11 *1
	200 and below	20 and below	20 and below	1 : No 0 : Yes	1 : No 0 : Yes	80 and below	80 and below	80 and below	80 and below	80 and below
	21	22	23	24	25	26	27	28	29	30
	Column 12 *1	Data Version	Revision Date	Material Grade No.	Metal Type * JIS symbols	Coloring No.	Thickness (mm)	Color	Diameter (mm)	Respondent's product/subparts/material name
	80 and below	40 and below	10 YYYY/MM/DD	60 and below	60 and below	40 and below	10 and below	60 and below	10 and below	160 and below
	31									
	Overall Content Flag									
	1									
	0 : N *3 1 : Y									

*3 Input Y, when more than one content flag is Y. Input N when all of content flags are N. However, even one blank (null) in any content flag, makes this column blank (null).

Substance group unit line

Data order	1	2	3	4	5	6	7	8	9	10
Content	Line code	Classification No.	Total sum *1	Total Content (mg)	Application area *1	Purpose of use *1	Column 13 *1	Column 14 *1	Column 15 *1	Content Flag by Threshold Level
Byte	3	3	20 and below	20 and below	80 and below	80 and below	80 and below	80 and below	80 and below	1
Remarks	300									0 : N 1 : Y
	11									
	Additional information on material composition of products *4									
	120 and below									

*4 Use this column to input data at every substance group, when use standard type.

Intended use/Application unit line

Data order	1	2	3	4	5	6	7
Content	Line code	Intended use classification code	Purpose of use/Intended use	Application area	Content (mg)	Maximum content rate (ppm)	Additional information on material composition of products
Byte	3	12 and below	120 and below	120 and below	20 and below	20 and below	80 and below
Remarks	600						

Substance unit line

Data order	1	2	3	4	5	6	7
Content	Line code	CAS Number	Compound content per surveying unit (mg)	Purpose of use/Intended use	Application area	Weight concentration per surveying unit (automatically calculated)	Additional information on material composition of products
Byte	3	12 and below	20 and below	120 and below	120 and below	20 and below	120 and below
Remarks	700						

Exhibit 7:

JGPSSI Format Ver.4 for Handwritten Response (Compliant JIG-101 Ed 2.0)

Requester & Respondent Information

< Level 1 >

Page 1.

Requester Information	Reference Number	
	Date of Data Entry	
	Company Name	
	DUNS Number	
	Division Name	
	Contact Name	
	Telephone Number	
	Fax Number	
	Email Address	
	Message from requester	

Respondent Information	Respondent's date of data	
	Company Name	
	DUNS Number	
	Division Name	
	Address	
	Contact Name	
	Telephone Number	
	Fax Number	
	Email Address	
	Additional information regarding survey responses	

Product/Parts Information

Product/Parts Number	Product/Parts Name	Manufacturer Name	Type	Data Version	Revision Date	Surveying Unit	Survey Unit Mass	Overall Content Flag
							(g)	

Contained substance group information - Content Flag /Total Content

< See Survey and response manual Ver.4 for filling out>

Criteria	Substance Group No.	Substance Group (JIG-101 Ed 2.0)	Content Flag(Y/N)		Total Content (mg)
			Y	N	
R	A05	Cadmium and Cadmium Compounds	Y	N	
R	A07	Hexavalent Chromium Compounds	Y	N	
R	A09	Lead and Lead Compounds	Y	N	
R	A10	Mercury and Mercury Compounds	Y	N	
R	A11	Nickel	Y	N	
R	A17	Tributyl Tin Oxide (TBTO, CAS.No.56-35-9)	Y	N	
R	A18	Certain Tributyl Tins(TBT) & Triphenyl Tins(TPT)	Y	N	
I	A19	Beryllium Oxide (CAS No. 1304-56-9)	Y	N	
R	A20	Diarsenic Pentoxide (CAS No. 1303-28-2)	Y	N	
R	A21	Diarsenic Trioxide (CAS No. 1327-53-3)	Y	N	
R	B02	Polybrominated Biphenyls (PBBs)	Y	N	
R	B03	Polybrominated Diphenyl ethers (PBDEs)	Y	N	
R	B14	Deca-BDE(PBDE)(CAS No.1163-19-5)	Y	N	
R	B11	Hexabromocyclododecane (HBCDD) and all major diastereoisomers (CAS No. 25637-99-4, CAS No. 3194-55-6)	Y	N	
I	B08	Brominated flame retardants (other than PBBs,PBDEs, or HBCDD)	Y	N	
R	B05	Polychlorinated Biphenyls (PCBs) and specific substitutes (See Annex B of JIG-101 Ed 2.0)	Y	N	
R	B15	Polychlorinated Terphenyls (PCTs)	Y	N	
R	B06	Polychlorinated Naphthalenes (more than 3 chlorine atoms)	Y	N	
R	B09	Shortchain Chlorinated Paraffins (C10 – C13) (CAS No. 85535-84-8)	Y	N	
A	B16	Tris (2-chloroethyl) phosphate (TCEP, CAS.No.115-96-8)	Y	N	
R	B12	Perchlorates	Y	N	
R	B13	Perfluorooctane sulfonate (PFOS)	Y	N	
R	B10	Fluorinated greenhouse gases (PFC, SF6, HFC)	Y	N	
I	B07	Polyvinyl Chloride (PVC)	Y	N	
R	C01	Asbestos	Y	N	
R	C02	Azocolourants and azodyes w hich form certain aromatic amines	Y	N	
R	C04	Ozone Depleting Substances	Y	N	
R	C06	Radioactive Substances	Y	N	
R	C07	Formaldehyde	Y	N	
R	C08	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (CAS No. 3846-71-7)	Y	N	
R	C09	Phthalates DEHP (CAS.No.117-81-7), DBP (CAS.No.84-74-2), BBP (CAS.No.85-68-7)	Y	N	
R	C10	Phthalates DINP (CAS No.28553-12-0, CAS No.68515-48-0), DIDP (CAS No.26761-40-0, CAS No. 68515-49-1), DNOP (CAS.No.117-84-0)	Y	N	

Contained substance group - detailed information

Substance Group No.	Intended use classification	Purpose of use/Intended use	Application area	Maximum content rate(ppm)	Additional information on material composition of products
A05					
A07					
A09					
A10					
A11					
A17	(Enter in next page)	(Enter in next page)	(Enter in next page)		
A18					
A19					
A20	(Enter in next page)	(Enter in next page)	(Enter in next page)		
A21	(Enter in next page)	(Enter in next page)	(Enter in next page)		
B02					
B03					
B14					
B11	(Enter in next page)	(Enter in next page)	(Enter in next page)		
B08					
B05					
B15					
B06					
B09	(Enter in next page)	(Enter in next page)	(Enter in next page)		
B16	(Enter in next page)	(Enter in next page)	(Enter in next page)		
B12					
B13					
B10					
B07					
C01					
C02					
C04					
C06					
C07					
C08					
C09	(Enter in next page)	(Enter in next page)	(Enter in next page)		
C10					

Contained substance - detailed information

< Level 3 >

Page 3.

Substance Group No. A17: Tributyl Tin Oxide (TBTO, CAS.No.56-35-9)

Intended use classification code: A17-J-

CAS No.	EC No.	Compound content per surveying unit (mg)	Purpose of use/Intended use	Application area	Weight concentration per surveying unit (%)	Additional information on material composition of products
56-35-9	200-268-0					

Substance Group No. A20: Diarsenic Pentoxide (CAS No. 1303-28-2)

Intended use classification code: A20-J-

CAS No.	EC No.	Compound content per surveying unit (mg)	Purpose of use/Intended use	Application area	Weight concentration per surveying unit (%)	Additional information on material composition of products
1303-28-2	215-116-9					

Substance Group No. A21: Diarsenic Trioxide (CAS No. 1327-53-3)

Intended use classification code: A21-J-

CAS No.	EC No.	Compound content per surveying unit (mg)	Purpose of use/Intended use	Application area	Weight concentration per surveying unit (%)	Additional information on material composition of products
1327-53-3	215-481-4					

Substance Group No. B11: Hexabromocyclododecane (HBCDD) and all major diastereoisomers (CAS No. 25637-99-4, CAS No. 3194-55-6)

Intended use classification code: B11-J-

CAS No.	EC No.	Compound content per surveying unit (mg)	Purpose of use/Intended use	Application area	Weight concentration per surveying unit (%)	Additional information on material composition of products
25637-99-4	247-148-4					
3194-55-6	221-695-9					
134237-50-6	-					
134237-51-7	-					
134237-52-8	-					

Contained substance - detailed information (cont'd)

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Substance Group No. B09: Shortchain Chlorinated Paraffins (C10 – C13) (CAS No. 85535-84-8)

Intended use classification code: B09-J-

CAS No.	EC No.	Compound content per surveying unit (mg)	Purpose of use/Intended use	Application area	Weight concentration per surveying unit (%)	Additional information on material composition of products
85535-84-8	287-476-5					

Substance Group No. B16: Tris (2-chloroethyl) phosphate (TCEP, CAS.No.115-96-8)

Intended use classification code: B16-J-

CAS No.	EC No.	Compound content per surveying unit (mg)	Purpose of use/Intended use	Application area	Weight concentration per surveying unit (%)	Additional information on material composition of products
115-96-8	204-118-5					

Substance Group No. C09: Phthalates DEHP (CAS.No.117-81-7), DBP (CAS.No.84-74-2), BBP (CAS.No.85-68-7)

Intended use classification code: C09-J-

CAS No.	EC No.	Compound content per surveying unit (mg)	Purpose of use/Intended use	Application area	Weight concentration per surveying unit (%)	Additional information on material composition of products
117-81-7	204-211-0					
84-74-2	201-557-4					
85-68-7	201-622-7					

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