Japan Display Inc.
Green Procurement
(For Suppliers)

April 1, 2022
## Revision History

<table>
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<tr>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established</td>
<td>February 2013</td>
</tr>
<tr>
<td>Revisions conforming to the Green Procurement Guidelines Version 3.0</td>
<td>April 1, 2014</td>
</tr>
<tr>
<td>Revisions conforming to the Green Procurement Guidelines Version 4.0</td>
<td>April 1, 2015</td>
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<td>April 1, 2020</td>
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<tr>
<td>Revisions conforming to the Green Procurement Guidelines Version 10.0</td>
<td>April 1, 2021</td>
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<td>April 1, 2022</td>
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5. Survey request and Answer Method (jDesc)
6. Cautions and Main Points
(i) Purpose of This Material
The “Legal regulations and clients’ requirements” with regard to chemical ingredients are becoming more and more complex year by year, and compliance to these issues requires standardized criteria, schemes, and systems. ⇒ Establishment of JDI’s Green Procurement Guidelines
For the purpose to observe various legal regulations and clients’ requirements related to environmental issues, JDI’s Green Procurement Guidelines are established.

Green Procurement Guidelines stipulate the environmental requirements necessary to undertake business with JDI.

This material is prepared to aim for suppliers to: “understand important parts of the Green Procurement Guidelines, and take correct and smooth actions for JDI’s environmental requirements.”
The latest edition is posted on the URL below

Japanese: http://www.j-display.com/company/procurement/supply.html
English: http://www.j-display.com/english/company/procurement/supply.html
(ii) Requirements of Green Procurement Guidelines
### Materials Requested to Suppliers

<table>
<thead>
<tr>
<th>Materials requested by Guidelines</th>
<th>Before deal with new supplier</th>
<th>On employment of new procurement *1</th>
<th>On renewal survey *2</th>
<th>Supplement</th>
<th>Request and answer method</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDI environment-audit-sheet</td>
<td>☑</td>
<td>-</td>
<td>☑</td>
<td>• In accordance with the audit form issued by JAMP, Supplier’s action system on environment will be evaluated.</td>
<td>E-Mail (Requests and answers by the E-Mail)</td>
</tr>
</tbody>
</table>
| Certification of non-use of environment-related substances | -                            | ☑                                 | ☑                   | • Format specified by JDI  
  • Suppliers are requested to declare non-use of prohibited substances.  
  • Suppliers are requested to report information of constitution of procured components and chemical substances using annex “Component List” and “Substance Survey Form.” | |
| JAPIA Sheet                      | -                            | ☑                                 | ☑                   | • A format of 100% material sheet issued by the Japan Auto Parts Industries Association (JAPIA) | jDesc (Requests and answers through the system on web registration) |
| Analytical reports               | -                            | ☑                                 | ☑                   | • Precise analytical reports on RoHS and halogens (chlorine and bromine) issued by a third-party organization  
  • * RoHS includes 4 Phthalates. | |
| SDS(MSDS) (Material sheet)       | -                            | ☑                                 | ☑                   | • If SDS(MSDS) is not available, a material sheet issued by the material manufacturer may be acceptable. | |
| Part Component Diagram           | * Limited to objective components | * Limited to objective components | ☑                   | • Electronic components, FPC, LED, touch panels, etc.  
  (Sample description is listed in the non-use certification.) | |

*1: The procured components herein means the “Materials and other product-related procurements.” (See the next page.)

*2: The renewal survey is triggered by amendments of legal regulations, clients’ requirements, and JDI’s standards.

Refer to the pages of (iv) Description of Survey Formats for details of each material.
Materials and other product-related procurements (Reference)

1) Constituent components of JDI’s products
Substrate glass, target, coating agent, photo resist agent, color filter, liquid crystal, orientation agent, sealing agent, spacer, conductive paste polarizing plate, touch panel, sealant, back light, PCB substrate (COF), ICs, FPC, electric component (resister, capacitor, connector, etc.), ACF, tapes, frames, adhesives, sheets, label, protective sheet, touch panel, cover glass, solder, ink for printing on label

2) Packing materials used for shipment of JDI’s products
Tray, bag for each component, tapes, desiccant, packing box, etc.

* The above items are listed as reference for your concrete understanding of the “Materials and other product-related procurements.”
Procured items not listed here, but constituting JDI’s products, are subject to this requirement.
An environmental materials survey is conducted by the system operators using jDesc. The suppliers are required to register directly (Web registration) with jDesc when responding. Refer to the page of the (v) Survey Request and Answer Method (jDesc) for details.
<Requirements of Procurement Items for Specific Clients>

Suppliers who supply procurement items for specific clients may be requested to submit one or more of the following documents as required by the clients:

1. Submission of reports
   - *Certification of non-use of environment-related substances* updated and renewed as of the date of submission
   - Analytical reports of which analysis start date was within a year before re-submission date
   - Analytical reports of antimony, PVC (polyvinyl chloride), arsenic, PFOS, PFOA, beryllium, etc.

2. Submission of materials for analysis
   - As for material analysis, 30 g of each constitution material of each component

3. Frequency and timing
   - It is planned to submit once a year basically.
   - Submission time is informed by JDI as necessary.

4. Others
   - If a specific client requires items other than those listed above, supplier(s) may be requested to submit the required items.

<Requirements of Procurement Items for Automobile>

Suppliers may be required to submit the IMDS (International Material Data System). If the submission of the IMDS is required, submissions of the documents “Certification of non-use of environment-related substances, JAPIA Sheet, Analytical reports, SDS (MSDS), Part Component Diagram” are basically exempted unless required by our customers.
(iii) **Standard of Prohibited and Controlled Substances in Product**
Our company stipulates the types, regulation values and other information on prohibited and controlled substances in Table 1: Standard of Prohibited and Controlled Substances in Product for JDI.

*The latest edition is posted on the URL below.

Japanese : http://www.j-display.com/company/procurement/supply.html
English : http://www.j-display.com/english/company/procurement/supply.html
[Prohibited Substances]
Substances, included in the "Materials and other product-related procurements," which are prohibited to be included in excess of the specified limit or added intentionally.

[JDI’s policy for establishing prohibited substances]
(i) **Substances prohibited by domestic and foreign legal regulations** regarding contained chemical substances such as European RoHS Directive, REACH regulation, and Japanese Law Concerning the Examination and Regulation of Manufacture etc. of Chemical Substances, etc.
(ii) **Substances required by JDI’s clients to prohibit** (such as halogen, PVC, antimony, and arsenic) which are not legally regulated but there is concern about adverse effects on the human body and the environment.
(iii) The **regulated limit value (threshold value)** of each prohibited substance is decided in consideration of JDI’s clients’ requirements.
   (Limit values of some substances may be required to be at lower values than under legal regulations.)

[Procurement items to which prohibited substance standards are to be applied]
- To be applied to "Materials and other product-related procurements."
- The procurement items approved on or before March 31, 2013 are to be subject to the prohibited substance standards effective at the time of approval.
  (However, any substances to be used for our new products on and after April 2013 shall be re-checked under new standards.)
[Procedure for permission to use prohibited substances]

If JDI’s standards for prohibited substances cannot be assured on some substance for reason(s) affecting quality, performance, safety, cost, and so on, use of the substances may be permitted under the condition that all of the following have been confirmed:

- Can be assured not to fall under the legal regulations
- Not falling under JDI’s relevant clients’ requiring prohibited substance standards (or having been approved by the clients).
- Subjective material name or model name being specified in the specifications and/or drawings supplied by JDI.

The above matters are to be confirmed on the certification of non-use of environment-related substances.

[Relation to requiring specifications and drawings]

- If any discrepancy is found between prohibited substance standards in the Green Procurement Guideline and substances specified in JDI’s specifications and/or drawings, the content in the required specifications and/or drawings takes precedence.

* If a client requires a substance in excess of the prohibited level stipulated in the Green Procurement Guideline, the use of the prohibited substances may be requested additionally in the specifications and/or drawings.

[Exemption of European RoHS Directive: ]

- Any use of components for exempted use shall be reported to JDI in advance.
  (Certification of non-use of environment-related substances shall be used for reporting.)
- As a general rule, supply of any item whose exempted use is limited in duration under the relevant legal regulation shall be prohibited after the date a year prior to the expiration of the exemption.
The substances including those of very high concern (SVHC) of the REACH regulations are objective substances to be controlled.

**Report to JDI if some of them are included, regardless of their included quantity.**

(Certification of non-use of environment-related substances and JAPIA Sheet shall be used for reporting.)
(iv) Description of Survey Formats
(iv)-1. JDI environment-audit-sheet
Supplier’s activities on environment preservation are evaluated.

[Description of Survey Formats]

JDI environment-audit-sheet – 1/3

[Decision criteria]

S rank: Attained ISO 9001 and ISO 14001 certification and Essential items are all conforming and an overall score of at least 85%

A rank: Attained one of ISO 9001 and ISO 14001 certification, or neither of them and Essential items are all conforming and an overall score of at least 85%

B rank: Essential items are all conforming and an overall score of at least 60% but below 85%

C rank: Below 60% or any of the Essential items is non-conforming or if an audit sheet is not submitted

[Renewal evaluation]

Evaluation update is conducted by comprehensively considering the content specified below:
- Suppliers whose management system of chemical substances contained in products has been changed
- Suppliers delivering a high-risk products and parts which specified by JDI
- Past audit results
- Other suppliers that JDI determines evaluation update is necessary

Any supplier intending to start a new transaction is requested to submit the JDI environment-audit-sheet. Suppliers ranked S or A will be adopted (priority supplier) and suppliers ranked B or C will be advised for improvement.

[Evaluation items]

(i) Whether the supplier has obtained, or is planning to obtain, ISO 9001 or ISO 14001 certification by an independent accredited organization.

(ii) With regard to environment preservation, nineteen major activities listed below are conducted proactively.

- Determining the scope of the Chemicals in Products management
- Roles, responsibility and authority of an organization
- Objectives and planning to achieve them
- Competence
- Documented information
- Customer communication
- Defining the Chemicals in Products management criteria
- Chemicals in Products Management in design and development
- Chemicals in Products information collection and verification
- Verification of the Chemicals in Products management status at suppliers
- Verification of the Chemicals in Products management status at outsourcing organization
- Management in manufacturing processes (Management of conversion process)
- Prevention of incorrect use and contamination (Management of incorrect use and contamination for parallel production and prohibited substances)
- Identification and traceability
- Change management
- Delivery of products
- Response to occurrence of nonconformity
- Performance evaluation and improvement

Supplier’s activities on environment preservation are evaluated.

[Evaluation items]

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Any supplier intending to start a new transaction is requested to submit the JDI environment-audit-sheet. Suppliers ranked S or A will be adopted (priority supplier) and suppliers ranked B or C will be advised for improvement.
JDI environment-audit-sheet

This sheet is JDI’s own audit sheet rearranged from the “List of Action Items & Check Sheet” issued by the Joint Article Management Promotion-consortium (JAMP). (Downloadable from the URL below)

http://www.j-display.com/english/company/procurement/supply.html (English)

Fill in this form while checking supplier’s standards (regulations and document forms) and records (evidence).

* The submission of additional evidence may be requested if the information provided is not clear enough.
* An on-site audit may be conducted if the information provided indicates particular problems or if it is justified by the nature of the relevant products.
Request and answer procedure of JDI environment-audit-sheet

■ Requesting method
Submissions are requested by the E-Mail from JDI.

■ Answer due date
On request, JDI informs its desired answer date by which the supplier is requested to respond. (Any inconvenience for the answer within the specified date may be adjusted with the requesting department.)

■ Answering method
The answer is to be send by the E-Mail.
(iv) – 2. Certification of non-use of environment-related substances
Certification of non-use of environment-related substances ("Certification" hereunder)

This is a form specified by JDI with which suppliers guarantee that the products listed in it satisfy the prohibited substance criteria in JDI’s Green Procurement Guideline for the procured items to be surveyed.

The Certification consists of “Certification top page,” “Annex [Component List],” and “Annex [Substance Survey Form].”

“Certification top page”
• Declare certification of non-use of JDI’s prohibited substances.
• Describe information about supplier’s procured items.
• Items of concern are checked.

“Annex [Component List]”
• Describe constitution information of each raw material in procured items.
• Regarding components that are difficult to identify, submit part component diagrams separately.
• Check existence of SDS(MSDS) and analytical reports for each material.

“Annex [Substance Survey Form]”
• Describe content information of prohibited substances and controlled substances.
• Regarding undisclosed substances, inclusion of prohibited substances is to be confirmed.

The format may be downloaded from the following URL.
http://www.j-display.com/company/procurement/supply.html (Japanese)
http://www.j-display.com/english/company/procurement/supply.html (English)
### Filling-in procedure of Certification top page(1)

<table>
<thead>
<tr>
<th>Certification of non-use of environment-related substances</th>
</tr>
</thead>
</table>

1. **Date**: Issue date of certification
2. **Company name**: Supplier’s company name
   - *To be filled in by the primary supplier to JDI.*
3. **Division name**: Department and Division in charge
4. **Position**: Position of person in charge
5. **Person in charge**: Name of a person who approves the Certification
6. **Seal**: Seal of person in charge or company’s seal (electronic seal acceptable)
   - *A Certification without a seal is not acceptable.*
7. **TEL**: Fill in a phone number to which JDI may communicate.
8. **E-Mail**: Fill in an e-mail address to which JDI may communicate.
Select appropriate one of the following guarantees, (1) or (2) (check in a box).

‘We hereby guarantee that the delivered product/component is, with regard to “Substances not to be included in products” in Japan Display’s (JDI’s) Green Procurement Guidelines: (1) not applied with any substances in excess quantity over the limit specified; or (2) applied with some substances in excess quantity of the limit specified; however, they are substances whose use is expressly admitted by JDI. We hereby guarantee that any substances except expressly admitted substances are not applied in excess quantity over the limit specified.’

When selecting (2), confirm “Names and model numbers of the components permitted to exceed the specified limit are listed in the specifications and/or drawings given by JDI which stipulate requirements given to the supplier.”

If not specified, communicate to JDI’s staff in charge of design or engineering for submission.

Components and materials which exceed the specified limits are basically required to be replaced; however, if the replacement affects quality, safety, delivery term, cost, and so on, special adoption may be studied under the condition that the adoption may not infringe relevant legal regulations and JDI’s clients’ prohibited substance criteria.

If containing substances exceeding the specified limits, describe “name,” “location,” concentration,” and a comment “being specified in JDI’s specifications and/or drawings” in the comment column.
[Filling-in procedure of Certification top page(3)(4)(5)]

(3) <Space for filling in basic information on procured items>
Fill in the following information on procured item to be guaranteed.
Product name (general name) : general name of procured item
  (e.g.: back light, FPC (flexible printed circuit board),
   driver IC, polarizing plate, liquid crystal, etc.)
JDI code : JDI item code (9 digits) specified by JDI
Model name : Supplier’s type name and model number
Manufacturer name : Company name which manufacturers
Manufacturing site : Manufacturer’s plant name where the items are made

(4) <Space for checking use of environmentally concerned substances>
Answer about use of halogens (chlorine, bromine) based compounds / antimony compounds / arsenic compounds.
If using them, check if they satisfy the specifications required by JDI.
* All chlorine compounds and bromine compounds, including chlorine- and bromine-based flame retardants and PVC, fall under this definition, and if a homogeneous material includes more than 900 ppm chlorine or bromine or more than 1500 ppm chlorine and bromine in total, the condition is defined as “Contained.”
* In the case of antimony or antimony compounds, if a homogeneous material includes more than 700 ppm, the condition is defined as “Contained.”
* In the case of arsenic or arsenic compounds, contained by intentionally added is defined as “Contained.”
These substances are not legally prohibited but are voluntarily prohibited by JDI as concerned substances affecting the human body and the environment, and some of JDI’s clients specify them as prohibited substances.
If alternative materials are not available due to various reasons such as quality matters and feature improvement, JDI will check whether or not the original material infringes the clients criteria and, if not, the original material will be specified for use in the specifications and/or drawings.

(5) <Space for checking use of BFR or CFR>
Answer about use of brominated flame retardant (BFR) or chlorinated flame retardant (CFR).
<Space for checking whether or not coated wire or recycled resin is used>

**Answer about use of coated wire or recycled resin.**

If using, fill the component names, material names, and information about raw material manufacturers.

* "Recycled resin" refers here to resin materials consisting of post-consumer and pre-consumer materials. Post-consumer materials mean materials or products disposed of after being used as products. Pre-consumer materials mean materials discarded or products rejected in the production line, excluding those recycled as raw materials in the same line.

The background of this question is that coated wire and recycled resin were once applied with prohibited substances specified by European RoHS Directive, and some specific clients require employment of materials supplied by raw material manufacturers approved by the clients when intending to use these kinds of components.

<Space for checking Exemptions in the European RoHS Directive>

**Answer whether or not the application of the materials falls under the exemption.**

If falling under the exemption, fill in the product name, type name, and exemption code.

* The exemption code is to be chosen on the pull-down menu referring to the “Exemptions in the European RoHS Directive” attached to the certification form.

* If the quantity of subject components is not less than three, fill in the “Separate application exempted substances list.”

Legal regulations have termination clauses of application exemption, and for compliance, JDI sets its own termination dates before the legal termination dates. JDI requires employment of alternative components for those falling under the termination clauses.
<Regarding "packaging materials for delivery" of delivered products/components>
Please choose whichever is appropriate regarding the use of phthalates in the European RoHS Directive for "packaging materials for delivery" used by suppliers when delivering products/components to the JDI group.

* Packaging materials for delivery include trays/reels/bags to put materials in, protective films to be pasted to materials, containers (including lids)/syringes of liquid materials, etc.

<JDI’s prohibited substance list>
This is a list of substances prohibited by JDI. (For reference purpose only, and suppliers are not required to fill in.)

Refer to the “Table1: Standard of Prohibited and Controlled Substances in Product” in the Green Procurement Guideline for the regulated limits and other details.

<Space for comment>
Use this space for communication to JDI.
[Description of Survey Formats]
Certification of non-use of environment-related substances – 7/19

[Fill-in procedure of Annex [Component List] (1)]

(1) * It is systematized so that the data entered in the top page of the Certification are reflected in this page as default.

  <Space for entering supplier’s basic data>
  Date : Issued date
  Company name : Supplier’s company name
  Product name (in general) : General name of procured item
  JDI code : JDI item code (9 digits) specified by JDI
<Component List: Constituent components, raw materials>
As for the procured item, fill the table with the constitution information broken down to raw material of the component
Filling example of component list down to raw materials

<table>
<thead>
<tr>
<th>Back light unit</th>
<th>Flexible print circuit (FPC)</th>
<th>Tapes</th>
<th>Polarizing plate</th>
<th>Driver IC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame</td>
<td>Gold plating</td>
<td>Tape base</td>
<td>Separator</td>
<td>Die</td>
</tr>
<tr>
<td>Light guide plate</td>
<td>Nickel plating</td>
<td>Adhesive</td>
<td>Adhesive</td>
<td>Gold bump</td>
</tr>
<tr>
<td>Reflecting sheet</td>
<td>Cover film</td>
<td>Base 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reflecting sheet adhesive tape</td>
<td>Cover adhesive</td>
<td>Base 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diffusion sheet</td>
<td>Conductor</td>
<td>Polarizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prism sheet, lower</td>
<td>Base film</td>
<td>Surface treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prism sheet, upper</td>
<td>Reinforcing film</td>
<td>Protective film base</td>
<td></td>
<td></td>
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<tr>
<td>Blackout double-sided tape</td>
<td>Reinforcing film adhesive</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Double-sided tape A</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Spacer</td>
<td></td>
<td></td>
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<tr>
<td>Spacer adhesive tape</td>
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<tr>
<td>FPC-base</td>
<td></td>
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<tr>
<td>FPC-cover lay</td>
<td></td>
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<tr>
<td>FPC-through hole surface plating</td>
<td></td>
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<td></td>
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<tr>
<td>FPC-ink</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>White LED-LED die</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>White LED-lead frame (base)</td>
<td></td>
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<td></td>
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<tr>
<td>White LED-lead frame (silver plating)</td>
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<tr>
<td>White LED-package</td>
<td></td>
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<tr>
<td>White LED-die bond resin</td>
<td></td>
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<tr>
<td>White LED-wire</td>
<td></td>
<td></td>
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<tr>
<td>White LED-mold resin</td>
<td></td>
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<tr>
<td>White LED-fluorescent substance</td>
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<td></td>
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<tr>
<td>White LED-mold material</td>
<td></td>
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</tr>
<tr>
<td>Lead-free solder</td>
<td></td>
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</tbody>
</table>

* If space not enough, insert additional lines.

If the structure includes sub-components, listing is to be completed so that the complete structure is made clear down to the raw material level in such a way as follows:
“sub-component name – raw material name”
“sub-component name 1 – sub-component name 2 - - - - – raw material name”
<Component List: To enter model number>
Enter the model number of each manufacturer’s constituting component or raw material. If the model numbers are not available, enter the mark “–”. If internal use only, enter “Confidential.”

<Component List: To enter manufacturer’s name>
Enter the name of manufacturer of each component or raw material. If internal use only, enter “Confidential.”

<Component List: To enter quantity>
Enter the quantitative data of each component or raw material. (The unit for countable components and materials is to be selected with “P.”) (For the uncountable materials such as solder, the unit is to be in “mg” or “g” and the weight per piece of the procured item is to be entered.)
Enter existence information of the analytical reports by a third party on the prohibited substances (cadmium / lead / mercury / hexavalent chromium (total chromium) / PBBs / PBDEs / DEHP / BBP / DBP / DIBP) specified by European RoHS Directive of each constituting component and raw material.

Select appropriate one on the pull-down menu:
- If contained: O
- If not contained: X
- In the case of supplied components: Provided by JDI

* The substances cadmium / lead / mercury / hexavalent chromium (total chromium) are mandatory for all materials including packaging materials. In the case of X, obtain from the component or raw material manufacturer, or conduct measurement.

* For PBBs / PBDEs / DEHP / BBP / DBP / DIBP, the resin materials (including ink, paint, and synthetic rubber) are mandatory. It is voluntary for packaging materials.
(The analysis results of total bromine may be alternatively used as the results for PBBs and PBDEs.)

* The analytical reports need not be submitted for components supplied by our Company (Provided by JDI).

Refer to the main material “(iv) – 4. Analytical reports” for details.
Enter existence information from the analytical reports by a third party on halogen (chlorine and bromine) of each component and raw material. Select appropriate one on the pull-down menu:
- If contained: O
- If not contained: X
- If not applied: – (in the case the components or raw materials are metal, glass, or ceramics)

In the case of supplied components: Provided by JDI

* The halogen analytical reports is mandatory if the component or raw material is resin, but not for metal, glass, or ceramics materials. It is voluntary for packaging materials.

* In the case of X on resin material, obtain from the component and raw material manufacturer, or conduct measurement.

* The analytical reports need not be submitted for components supplied by our Company (Provided by JDI).

Refer to the main material “(iv) – 4. Analytical reports” for details.
<Component List: to check existence of SDS(MSDS) (material sheet)>
Enter existence information of SDS(MSDS) of each component and raw material. If SDS(MSDS) is not available, the material sheet is acceptable.

Select appropriate one on the pull-down menu:
- If contained: O
- If not contained: X
- In the case of supplied components: Provided by JDI

*In the case of X, obtain from the component and raw material manufacturer.

*SDS (MSDS) or material sheet needs not be submitted for components supplied by our Company (Provided by JDI)

<Comment column>

<Component List: Filling remarks>
If some data in the analytical reports exceed the regulation limit of JDI’s prohibited substance criteria, enter the values and comments stating that the items are exempted ones.
(e.g. “12,000 ppm lead was detected but falling under exemption by RoHS,” etc.)
*Use the comment column if the space is not sufficient in the remarks column.
Prepare and submit part component diagrams for the following components:

- Electronic components (IC, resistors, capacitors, connectors, etc.), FPC, LED (including LED-FPC and thermistors), touch panels

Example: transistor

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Location</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mold Resin</td>
<td>Epoxy resin</td>
</tr>
<tr>
<td>2</td>
<td>Frame</td>
<td>Nickel</td>
</tr>
<tr>
<td>3</td>
<td>Lead Finish</td>
<td>Lead-free solder</td>
</tr>
<tr>
<td>4</td>
<td>Pellet</td>
<td>Silicon</td>
</tr>
<tr>
<td>5</td>
<td>Bonding Wire</td>
<td>Gold</td>
</tr>
</tbody>
</table>

Example: Electronic substrate (Printed circuit board – PCB)

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Component</th>
<th>Location</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Transistor</td>
<td>Mold Resin</td>
<td>Epoxy resin</td>
</tr>
<tr>
<td>2</td>
<td>Frame</td>
<td>Nickel</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Lead Finish</td>
<td>Lead-free solder</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Pellet</td>
<td>Silicon</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Bonding Wire</td>
<td>Gold</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>PC board</td>
<td>Base</td>
<td>Epoxy resin</td>
</tr>
<tr>
<td>7</td>
<td>Prepreg</td>
<td>Epoxy resin</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Copper foil</td>
<td>Copper alloy</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Copper plating</td>
<td>Electrocopper plating</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Solder resist</td>
<td>Epoxy resin</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Road map (ink)</td>
<td>Epoxy resin</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Solder</td>
<td>Solder</td>
<td></td>
</tr>
</tbody>
</table>

It is difficult to find relations between names of constitution and raw materials of the components, and therefore the tables are required for correct checking of the included chemical substances in the constituting components.

<Important !!>
- The “Part Component Diagram” must be registered in jDesc in any file form separately from the Non-Use Certification.
- When registering in jDesc, choose the document name of “Part Component Diagram” as the registration document name.
**[Basic information of supplier]**

- **Date:** Issued date
- **Company name:** Supplier’s company name
  - *To be filled by the primary supplier to JDI.*
- **Product name (in general):** General name of procured item
- **JDI code:** JDI item code (9 digits) specified by JDI

**[Weight]**

Please indicate the weight (in mg or g) of a single unit of the product delivered and please also use the unit length or unit volume instead of unit count as necessary.

Examples: __ mg/m for ACF, __ mg/100 mL for liquids
Enter whether the substances to be surveyed that are indicated on the Table are contained, based on the JAPIA Sheet, analytical reports, and the composition data in the SDS (MSDS).

On all substance groups in the table, select “Contained” or “Not contained” on the pull-down menu:

* Regardless of the regulated limits, if containing the substances even in a trace quantity, select “Contained.”

* Select “Yes” or “No” checking the JAPIA sheets, analytical reports and SDS(MSDS) sheets.
<Contained substance data>
If selected "Contained" at (3), enter following data:

<table>
<thead>
<tr>
<th>Substance name</th>
<th>General name in industry</th>
<th>CAS Registry No.</th>
<th>Concentration in homogeneous material [ppm]</th>
<th>Relevant part or material</th>
<th>Intended use</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* For SVHCs, please give the weight concentration in the product.

*If substance groups are contained in more than one area, insert lines or insert line feeds in a cell for additional space for description.

*For substances contained, even in a small amount, please specify the name, CAS number, concentration, the relevant part or material, intended use, and RoHS exemption use, irrespective of the regulated limit.

*Please also fill out substances undisclosed (e.g. "Misc. not to declare") and substances without CAS Registry number in the JAPIA sheet (material sheet) for confidentiality or other reasons.
If containing substances exempted from application of European RoHS Directive, select appropriate one on the pull-down menu.

* The exemption codes are to be referred to the “Exemptions in the European RoHS Directive” attached to the Certification Format.

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**If there is more than one exempted code such as lead in components for a large product, add lines for description.**
It is requested that suppliers fill supplemental explanations and information to JDI, if any, in the Remark or Comment column.
[Instructions to Prepare Certification]

- Refer to the “Filled example” of the form (Excel) for preparation.
- It is prohibited to re-write the format.
- Be sure to avoid omission or error of descriptions of necessary items and omission of affixing a seal.
- Submit the Certification filled in by the primary supplier to JDI. (If the business flow is, for instance, “Manufacturer ⇒ Trading Co. ⇒ JDI,” the Certification is to be filled in by the Trading Co. which deals with JDI directly.
- The registration on jDesc is to be done in the form of Excel or PDF. It is not necessary to send the original hard copies, except when instructed to do so.
  * Suppliers are requested to submit electronic files that are set in printable mode.
(iv) – 3. JAPIA Sheet
1. What is a JAPIA sheet?
   - Industry-standard report form applicable to all compositions of the component. (Excel form, available in Japanese, English, and Chinese.)
   - It is provided by Japan Auto Parts Industries Association (JAPIA) and is a composition table format mainly for assisting the creation of IMDS in the international format.

2. Manual to prepare a JAPIA sheet
   - The manual is posted on the website of Japan Auto Parts Industries Association (JAPIA).
   - Posted samples are: electronic components (transistors, electronic printed circuit board), labels, tapes and plated compound components.

3. Website of Japan Auto Parts Industries Association (JAPIA)
   - Japanese page: https://www.japia.or.jp/work/kankyou/japiasheet/  * All materials are posted.
   - English page: https://www.japia.or.jp/en/activities/environment/japiasheet/  * English materials only are posted.

4. Introduction of “JAMA Sheet User’s Manual” prepared by JDI
   - A “JAMA Sheet User’s Manual” that describes the specific method for creating the old JAMA sheet is posted on our website.
   - The basic operation method of the old JAMA sheet and JAPIA sheet is the same. Please use the manual as a reference.

* English page: http://www.j-display.com/english/company/procurement/supply.html

Suppliers trying JAPIA sheet for the first time are **requested to read in advance the manuals and relevant documents posted on the above URL.**
(iv) – 4. Analytical reports
The analytical reports requested by JDI are to satisfy stipulations in (1) through (7). Any report that fails to satisfy any of the stipulations shall be re-submitted.

(1) Materials to be analyzed:
On each component for procurement, suppliers are requested to conduct analysis on all homogeneous materials as shown in the examples below:

**Example 1) Printed circuit board**

- (i) Substrate
- (ii) Plating
- (iii) Resist
- (iv) Printing/stamp ink
- (v) Prefix
- (vi) Copper foil

**Example 2) Wire**

- (i) Core wire
- (ii) Insulator
- (iii) Inclusion 1
- (iv) Inclusion 2
- (v) Shielding material
- (vi) Copper foil

**Example 3) Plating**

Please ensure that you analyze the plating separately from the base material!!
* Electroless nickel plating is contained meaningly lead. Please state explicitly whether it is electroplating or electroless plating.
* Tin plate is not a homogeneous material. Please ensure that you analyze the plating separately from the base material!!
* It is meaningless to analyze the plating solution.

*Note that, If requested by our customers, procurement items in a liquid state (examples shown below) should be analyzed in the state after product molding (after drying). (e.g. flux, adhesive, coating agent, paste agent, ink, paint, resist, etc.)
(2) Substances to be analyzed: Perform high-precision quantitative analysis on the six substances and four Phthalate esters to which the European RoHS directive applies chlorine and bromine according to Table 1.

### Table 1  Substances to be analyzed

<table>
<thead>
<tr>
<th>Substances to be analyzed</th>
<th>Procured items for products</th>
<th>Packaging and packing materials</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Resin materials (including ink, paint and synthetic rubber)</td>
<td>Other than Resin material (metal, glass, ceramics)</td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Hexavalent chromium (Cr(VI)) Note 1)</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>PBBs Note 2)</td>
<td>Required</td>
<td>If needed</td>
</tr>
<tr>
<td>PBDEs Note 2)</td>
<td>Required</td>
<td>If needed</td>
</tr>
<tr>
<td>Chlorine (Cl)</td>
<td>Required</td>
<td>If needed</td>
</tr>
<tr>
<td>Bromine (Br)</td>
<td>Required</td>
<td>If needed</td>
</tr>
<tr>
<td>Phthalate esters (DEHP, BBP, DBP, DIBP)</td>
<td>Required</td>
<td>If needed</td>
</tr>
</tbody>
</table>

**Note 1)** Regarding Cr (VI), if the total Cr detected is not higher than the detection limit, it may be used alternatively.

**Note 2)** Analysis of PBBs and PBDEs is not necessary if the analysis result for bromine are not higher than the detection limit. Regarding PBBs and PBDEs, all of their isomeric forms are to be analyzed. (10 kinds from PBBs and 10 kinds from PBDEs)
(3) Analytical method: Please refer to the Table 2 for the analytical methods and detection limits recommended by JDI for high-precision quantitative analysis. **Fluorescent X-ray analysis should not be used because of the low precision.**

### Table 2: Recommended detection limit and recommended analytical methods for each substance

<table>
<thead>
<tr>
<th>Substance to be analyzed</th>
<th>Recommended detection limit</th>
<th>Recommended analysis method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>2 ppm or less</td>
<td>ICP emission spectrometry</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>10 ppm or less</td>
<td>ICP emission spectrometry, UV – Vis</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>2 ppm or less</td>
<td>Gas chromatograph-mass spectrometry</td>
</tr>
<tr>
<td>Hexavalent chromium (Cr (VI))</td>
<td>2 ppm or less</td>
<td>IEC62321</td>
</tr>
<tr>
<td>PBBs</td>
<td>5 ppm or less</td>
<td>EN14582</td>
</tr>
<tr>
<td>PBDEs</td>
<td>5 ppm or less</td>
<td>Ion chromatography analysis</td>
</tr>
<tr>
<td>Chlorine (Cl)</td>
<td>50 ppm or less</td>
<td></td>
</tr>
<tr>
<td>Bromine (Br)</td>
<td>50 ppm or less</td>
<td></td>
</tr>
<tr>
<td>Phthalate esters (DEHP, BBP, DBP, DIBP)</td>
<td>50 ppm or less</td>
<td>Gas chromatograph-mass spectrometry</td>
</tr>
</tbody>
</table>

(Supplement)  * The spot test for Cr(VI) stipulated in IEC62321 cannot be accepted as a precise analysis because the spot test is not a quantitative test.  * The Cd and Pb sediment created in their pre-conditioning (unsolved substances) are required to be resolved completely in some way, such as by the alkali melting method, and the melting methods represented in the following are not applicable: EN 71-3:1994, ASTM F963-96a, ASTM F963-03, ASTM D 5517 and ISO 8124-3:1997. In addition, EN1122:2001 is not applicable for the pre-conditioning method for lead.
(4) Information required in the analytical reports

An analytical reports should at least contain information on the following.

1. Pre-conditioning method:
   The name of the official method used, or description of the non-official method used.
2. Measurement method: The name of the official method used, or measurement method.
3. Operator’s and supervisor’s names, the name of the laboratory
4. Date of the analysis
5. Analytical results; please provide the detection limit if the result is N.D. (not detectable)
6. Flowchart of the analytical procedures   Note 3)

Note 3) For the preconditioning of resinous samples (inks, dyes, synthetic rubbers) for the determination of cadmium and lead, mention "complete dissolution" explicitly in the report or flowchart.
(5) Laboratory
Analysis is to be conducted by a third-party laboratory with ISO17025 certification.

(6) Validity of the analytical reports
The analytical reports should be submitted within two years (or one year when requested by a customer) of the date of the analysis.

(7) Language written in an analytical reports
Analytical reports should be written in English. A bi-/multilingual version containing English text is acceptable. (a report in Japanese or Chinese only is not accepted.)
(8) Analysis report requirements from our specific customers

The following submission of analysis reports will be requested individually to suppliers who deliver the components to our specific customers.

<table>
<thead>
<tr>
<th>Substance to be analyzed</th>
<th>Materials subject to analysis</th>
<th>Analysis method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>All materials</td>
<td>IEC 62321 or other methods approved in advance by JDI</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexavalent chromium (Cr (VI))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBBs</td>
<td>All materials except metals, glasses, or ceramics</td>
<td></td>
</tr>
<tr>
<td>PBDEs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phthalate esters (DEHP, BBP, DBP, DIBP)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorine (Cl)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bromine (Br)</td>
<td>All materials except metals or ceramics</td>
<td>EN 14582, US EPA SW-846 5050/9056 or other methods approved in advance by JDI</td>
</tr>
<tr>
<td>Arsenic (As)</td>
<td>Glass</td>
<td>Total acid digestion followed by ICP-MS</td>
</tr>
<tr>
<td>Beryllium (Be)</td>
<td>Metal alloys including copper and beryllia ceramic</td>
<td>US EPA 3050B, US EPA 3052 or other methods approved in advance by JDI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PFOS, PFOA</td>
<td>Inks, paints, leather, textiles, and coatings</td>
<td>DIN CEN/TS 15968 or other methods approved in advance by JDI</td>
</tr>
</tbody>
</table>

<Required Conditions> All the following conditions shall be met.

(i) Conduct the analysis for each homogeneous material. A homogeneous material is a single material in which the composition is uniform throughout the material, or a material that is composed of a combination of materials that cannot be further separated by mechanical means.

(ii) Conduct the analysis using a sample in the finished state (the condition used in the market.)

→ Inks, paints, and adhesives shall be analyzed in a cured state after drying, not in a liquid state before application.

→ Solder flux and solder paste shall be analyzed in the state after heat treatment after its application. Solder thread and solder paste shall be analyzed for alloy and flux separately after they are separated. If there is a cleaning process that removes residual flux, the analysis may be conducted without separating them.

(iii) The analysis report shall be issued by a third-party laboratory with ISO 17025 accreditation.

(iv) The date of analysis shall be within two years. *Since the date of analysis must be no older than two years from the date of submission of the report to a specific customer, JDI may request suppliers to provide the newer analysis report to secure sufficient time for its submission.

(V) In addition to satisfying item (4), the contents of analysis reports shall meet the following.

→ Must be in English (containing any other languages is acceptable).

→ The name (description) of the sample in the report shall be a name that is identifiable as the target material.

→ Include a photo of each sample analyzed.

→ Must be an original pdf file issued by the laboratory. A printed or edited PDF file will not be accepted.
### Description of Survey Formats

#### Analytical reports (Examples of European RoHS analysis – 1/2)

<table>
<thead>
<tr>
<th>Name of component to be analyzed</th>
<th>Date of analysis (Nov. 7, 2012, in this case)</th>
<th>Confirm that the date is within 2 years.</th>
</tr>
</thead>
</table>

- **Official analytical method:** Must specify the method used for analysis.
- **Detection limit:** Must be specified for each substance.
- **Analysis result:** Must be clearly stated for each substance.

If nothing is described on the items specified with red letters in an analytical report, it is not acceptable.
[Description of Survey Formats]

Analytical reports (Examples of European RoHS analysis – 2/2)

If nothing is described on the items specified with red letters in an analytical reports, it is not acceptable.
[Description of Survey Formats]

Analytical reports (Example of analysis of chlorine and bromine – 1/1)

If nothing is described on the items specified with red letters in an analytical reports, it is not acceptable.
### Analytical reports (Example of analysis of Phthalate esters – 1/1)

**Description of Survey Formats**

<table>
<thead>
<tr>
<th>Name of component to be analyzed</th>
<th>Date of analysis (Dec. 7, 2015 in this case)</th>
<th>Confirm that the date is within 2 years.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of laboratory (Signature or seal of person in charge)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Third party’s report No.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Test Report**

- **Name of substance to be analyzed**
- **Unit of analysis value**
- **Detection limit value**
- **Analysis result**

**Analysis flow chart (Phthalate esters)**

- Sample collection
- Sample preparation
- Separation and isolation
- Concentration and dilution
- Filtration
- GC/MS
- Data

If nothing is described on the items specified with red letters in an analytical reports, it is not acceptable.
(iv) – 5. SDS (MSDS) (material sheet)
**SDS (Safety Data Sheet)  
MSDS (Material Safety Data Sheet)**

Suppliers are requested to submit SDSs (MSDSs) in English for each subcomponent or homogeneous material in the product as evidence for the constituent information in the JAPIA Sheet. If SDSs (MSDSs) are not available, submit instead a constituent list (a certification of material, etc. whose form is not specified) provided by the manufacturer of the subcomponent or material.

* A supplier-made constituent list cannot replace the SDSs (MSDSs) because it is not evidence about the constituent information from the source.
(v) Survey request and Answer Method (jDesc)
1. Answering methods for environment survey:
   - As detailed in “regarding materials requested to suppliers” mentioned before, answering methods are as follows:
     (i) Answer by through the E-Mail: only “JDI environment-audit-sheet”
     (ii) Answer through jDesc (Chemical Substances Management System): All materials except the above.

2. Preparation for use of jDesc system in advance:
   - Necessary to request usage of the system in advance. An ID and password will be issued.
   - Fill in the jDesc usage application form when applying. (The application form can be found through the URL below)

3. Basic flow of environment survey using jDesc system:
   (i) Survey requests from JDI to supplier <through Web>
   (ii) Answer of environment survey by supplier (each submission material) <through Web>
   (iii) Communication from JDI to supplier on material check result (approval, re-survey, etc.) <through Web>

4. jDesc operation method:
   * Refer to the jDesc system operation manual posted on the URL below.
     * Japanese: http://www.j-display.com/company/procurement/supply.html
     * English: http://www.j-display.com/english/company/procurement/supply.html
(vi) Cautions and Main Points
[Cautions and Main Points]

• With regard to the materials requested through jDesc, such as the analytical reports and SDS(MSDS), suppliers are requested to be ready to submit in time for the product development schedule.  
  (It is too late if starting when requested. Suppliers are requested to prepare voluntarily whenever the specifications are nearly completed so that the materials can be submitted to JDI at any time.)

• Depending on various reasons, if planning to use prohibited substances which exceed the regulated limits, confirm whether the use is specified in the specifications and/or drawings of the objective components that JDI requires.

• Some clients may request JDI, at the early stage of development, to submit materials. To respond to the request, JDI may request suppliers to conduct survey at the stage of prototype (prototype code).

In such case, two survey requests (together with a mass production code) may be issued. Suppliers’ cooperation is anticipated.

For reference, because supplier’s registered data are stored in JDesc, when a supplier prepares answers for mass-production, the supplier may utilize own data registered at the prototype stage.

• If not experienced in preparation of JAPIA sheet, prepare it in advance by reference to manuals.

• Depending on revision of legal regulations and clients’ survey requests, suppliers are requested to respond to the survey requests or request of materials other than those demanded in this document.