

Japan Display Inc.

Japan Display Inc. Green Procurement (For Suppliers)

April 1, 2022

Revision History

| Description | Date |
|---|---------------|
| Established | February 2013 |
| Revisions conforming to the Green Procurement Guidelines Version 3.0 | April 1, 2014 |
| Revisions conforming to the Green Procurement Guidelines Version 4.0 | April 1, 2015 |
| Revisions conforming to the Green Procurement Guidelines Version 6.0 | April 1, 2017 |
| Revisions conforming to the Green Procurement Guidelines Version 7.0 | April 1, 2018 |
| Revisions conforming to the Green Procurement Guidelines Version 8.0 | April 1, 2019 |
| Revisions conforming to the Green Procurement Guidelines Version 9.0 | April 1, 2020 |
| Revisions conforming to the Green Procurement Guidelines Version 10.0 | April 1, 2021 |
| Revisions conforming to the Green Procurement Guidelines Version 11.0 | April 1, 2022 |

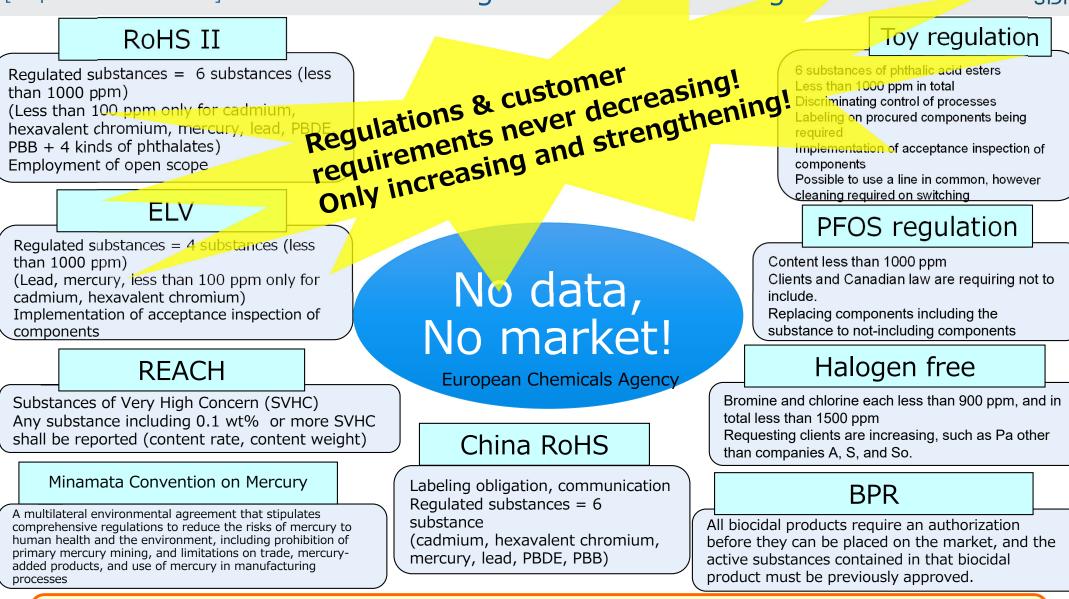
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(i) Purpose of This Material

[Purpose of This Material] Environmental Regulations Surrounding JDI Products



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. \Rightarrow 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."

Green Procurement Guideline

(Ver.XX)

Japan Display Inc.

Procurement Department R&D Promotion Department, R&D Division

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Page 1 of 28

The latest edition is posted on the URL below

Japanese: <u>http://www.j-display.com/company/procurement/supply.html</u> English: <u>http://www.j-</u> <u>display.com/english/company/procurement/supply.html</u>

(ii) Requirements of Green Procurement Guidelines

[Requirements of Green Procurement Guidelines] Materials Requested to Suppliers

Mandatory
 Mandatory
 Additional content of the second sec

| | | | | | : Unnecessary |
|--|-------------------------------------|---|--|---|---|
| Materials requested by Guidelines | Before deal with new supplier | On employment of new procurement *1 | On renewal survey *2 | Supplement | Request and answer method |
| JDI environment- audit-sheet | 0 | - | ۵ | In accordance with the audit form issued by JAMP, Supplier's action system on environment will be evaluated. | E-Mail (Requests and answers by the E-Mail) |
| Certification of non- use of environment- related substances | - | ۵ | ۵ | 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 <i>annex</i> "Component List" and " Substance Survey Form." | |
| JAPIA Sheet | - | © | 0 | A format of 100% <i>material sheet</i> issued by the Japan Auto Parts Industries Association (JAPIA) | jDesc |
| Analytical reports | - | ۲ | 0 | Precise analytical reports on RoHS and halogens (chlorine and bromine) issued by a third-party organization * RoHS includes 4 Phthalates. | (Requests and answers through the system on web registration) |
| SDS(MSDS) (Material sheet) | - | 0 | 0 | If SDS(MSDS) is not available, a <i>material sheet</i> issued by the material manufacturer may be acceptable. | |
| Part Component Diagram | | Timited 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.)

⇒ All the procurements that go into any product sold by JDI Group, including end products, system components, units, parts, materials and packaging materials for delivery.

*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.

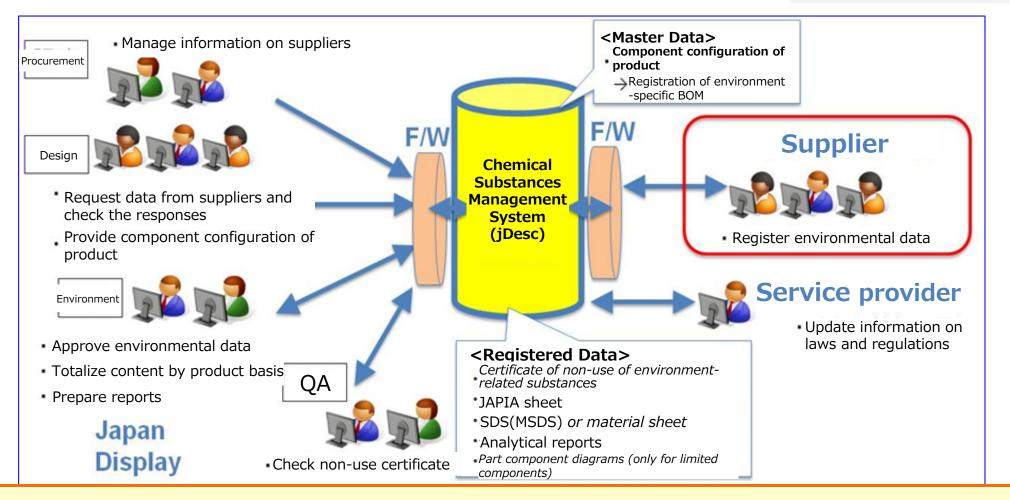
[Requirements of Green Procurement Guidelines] Survey Method for Environmental Materials with Suppliers

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Chemical Substances Management System (jDesc)

jDesc:

JD Environmental information System for Chemical substance



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

| 5 | Substances Substances | Target | Threshold level *1) | Referring laws and regulations | Remaña |
|---|---|--|---|---|--|
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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 :

<u>http://www.j-display.com/company/procurement/supply.html</u> 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.

[Controlled substances to be included in Products] Substances to be reported to JDI if they are included or intentionally to be added

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.

[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.

- 5.1.3 Determining the scope of the Chemicals in Products management
- 5.2.2 Policy
- 5.2.3 Roles, responsibility and authority of an organization
- 5.3.2 Objectives and planning to achieve them
- 5.4.2 Competence
- 5.4.5 Documented information
- 5.5.2.1 Customer communication
- 5.5.2.2 Defining the Chemicals in Products management criteria
- 5.5.3 Chemicals in Products Management in design and development
- 5.5.4.1 Chemicals in Products information collection and verification

- 5.5.4.2 Verification of the Chemicals in Products management status at suppliers
- 5.5.4.3 Chemicals in Products management at receiving
- 5.5.4.4 Verification of the Chemicals in Products management status at outsourcing organization
- 5.5.5.1 Management in manufacturing processes (Management of conversion process)
- 5.5.5.2 Prevention of incorrect use and contamination (Management of incorrect use and contamination for parallel production and prohibited substances)
- 5.5.5.3 Identification and traceability
- 5.5.6 Change management
- 5.5.7 Delivery of products
- 5.5.8 Response to occurrence of nonconformity
- 5.6 Performance evaluation and improvement

[Evaluation method]

Suppliers shall submit JDI environment-audit-sheet specified by JDI.

Evaluation is conducted by either means of a self-assessment or an on-site audit.

[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.

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

| 1 | ction items (From Guidelines for the Management of Chemicals in Products (CIP) Ver. 4.0) | | | | |
|----------|---|---------------------------|---|--------------------|---|
| L | Action items (Details) | | | | |
| | R R Question Flag | | by Self-Evaluating Organization | | by Evaluation-Result Verifying Organization |
| n. | Image: Conformance State Conformance State Conformance State Conformance State Image: Conformance State Conformance State Conformance State | Self-Evaluation Result | Answer (implementation details, evidence name, etc.) | Judgment Result | Judgment reason, memo, remarks, etc. |
| 5.1 | 1 Context of the organization | | | | |
| 5.1 | 1.1 Understanding the organization and its context | | | | |
| | The organization shall clarify external and internal issues that are relevant to its purpose and that affect its ability to achieve the intended result(s) of its CIP management. | | | | |
| | Ž Ž (No questions) | | (No question so answer not required) | - | (Not subject to evaluation) |
| 5.1 | fill in this form while referring to the filling | , pro | ocedure expla | ain | ed in this for |
| | The organization shall clarify the following items to understand the needs and expectations of stakeholders. a) The stakeholders closely related to CIP management b) The requirements of those stakeholders that are closely related to CIP management | | | | |
| | (No questions) | | (No question so answer not required) | | (Not subject to evaluation) |

The rest of the items is omitted (59 of confirmation items in total)

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

[Description of Survey Formats] Certification of non-use of environment-related substances – 1/19

[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]."

| <form></form> | <form><form><form><form><form><form><form><form></form></form></form></form></form></form></form></form> | <text><form><form></form></form></text> |
|--|--|---|
| "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 foll http://www.j-display.com/company/procure http://www.j-display.com/english/company/procure http://www.j-display.com/english/company/procure http://www.j-display.com/english/company/procure http://www.j-display.com/english/company/procure http://www.j-display.com/english/company/procure http://www.j-display.com/english/company | ement/supply.html (Japanese) | N=2-base unit transport Piletae N=2-base unit transport Piletae |

[Description of Survey Formats] Certification of non-use of environment-related substances – 2/19



[Filling-in procedure of Certification top page(1)]



[Filling-in procedure of Certification top page(2)]

| ATT: Japan Display Inc. | | | | Dete: YYYY7MMOD |
|--|---|--|---|--|
| Certifi | ication o | f non- | ise o | f environment-related substances |
| | | | | Company name |
| | | | | Division name: |
| | | | | Postion |
| | | | | |
| | | | | Signature (or Seal) |
| | | | | TEL: E-Mail |
| | | | | to Japan Display Inc. s (JUns) Green Procurement Guidelines are as follows: |
| | Antiporteria ape | anes cerem | | |
| | | | | |
| in an amount NOT exceeding | the chemical con | tent limit sp | ecfed. | |
| | 12.2 | | | sast in statistic lat |
| 2. In an amount exceeding the cl | hemical content i | init specifie | a howeve | or t is expressly admitted by JDI. |
| Parameters of the delivered products/com | | on in the en | ter Man | nonast laff attached |
| The content of the prohibited or controlled sub- | | | | |
| | | | | by the JDI Green Procurement Guidelines as evidence. |
|) Products/components delivered by us | | | | |
| | | | | |
| Assessment in the factory | | | | Madalana |
| General name in industry JDI Code: | | | | Model name: |
| General name in industry "DI Code: | | | | Model name: Mandhature name: Mandhaturg alla: |
| | | | | Molei fame Mandistavr fame Mandisturig aller |
| JCI Code: | ached. | | | Noder name Mandhazer rame Nanderstrig alle |
| 2) Please fil in the annex "Component List" at | | | | Vectors of the second s |
| | | | | Node name Mandhaser name Mandhashing alle |
| .21 Cole: 2) Please fill in the annex "Component List" at 3) Please fill in the annex "Substance Survey f | Form* attached. | | | |
| "Di Cole" 2) Please fil in the annex "Component List" att 3) Please fil in the annex "Substance Survey f 4) Is any halogen (chlorine of bromine)/antimo | Form" ettached. nylamenic comp | | | Suctionsponent? |
| .21 Cole: 2) Please fill in the annex "Component List" at 3) Please fill in the annex "Substance Survey f | Form" ettached. nylamenic comp | | | |
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| 20 Code 2) Please & In the annex "Component List" at 3) Please & In the annex "Substance Survey I 4) Is any heligen (chickne or bromies)entries i) Halogen compound(s) ii) Antenny compound(s) iii) Antenny compound(s) | Form" attached. ny/ansenic comp -mentioned, doe chiosinated fam | Yes C Yes C Yes C s the compo Yes 1 | No No No No No No No No No No No No No N | Subbunguese? "Vedale al officients and trainine compounds such as officinated or traininated fame vehicles and "Year for more than 300 gain distrine and trainine, or 1500 gains tabinategies in a transparence and "Teckdae attempts and entrany compounds. "Yea" for southered by intertoreely added. "Teckdae attempts and a water compounds. "Yea" for contained by intertoreely added. By the dot Regulationship" gainematic are not correctly find. |
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| Di Cote Di Stesse fil in the annex "Component List" at Preses fil in the annex "Dubtance Burvey i Neases fil in the annex "Bubstance Burvey i Neases for the compounds, Annex compounds, Annex compounds, Annex every of (a) and b) above Si as any brominated fame retardant (BFR) or Neary composed where or recycled resin used in Yrye, specify the component, material Component name | Form" ettached. nylensenic comp -thentioned, doo chiorinated flam the productioon , and material m Mar he Europeen Ro | Yes C Yes C s the compo Yes 2 e retardant Yes 2 ponent? Yes 2 anufacturer risi neme: | No No No No No CFR) use No No No | SubSumponent? |
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| .DC Coles | Form" ettached. | Yes C Yes C Yes C is the compo Yes C ponent? Yes C anufacturer risi neme | No No No No No No No No No No | Autoroponent? |
| 20 Code 21 Please III in the annex "Component Lef" at 21 Please III in the annex "Substance Burvey I 31 hardingen (chlothe or bounine)tertimo () Hardingen compound(s) 31 Andingen compound(s) 31 Andingen compound(s) 31 Andingen compound(s) 31 Andingen component(s) 31 hardingen (GLR) and B1 above 53 harvy torminated fame retardant (GPR) or 31 harvy costed wire or recycled resin used in 31 yas, specify the component, material Component name () harvy material applied to the exemption in t | rom" stached. | Yes C Yes C Yes C is the compound of the compound Yes C ponent? Yes C anufacture: risid neme- HS directive Yes C pfon. Peese | No No No No No No No No No No No | Autoroponent? |

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.

| | Obstytin compounds (DBTx) | 27 | Formaldehyde | - 4 | PFHd and its salts and PFHd-related substances |
|----|---|----|--|-----|---|
| | Diodytin compounds (DOTs) | | Dergenanine Ji-Phenyl-, Readline Products with Styrene | | Dechlorane Plus |
| 1 | Short-chain chiorinated peraffina (SCCP) | * | and 2,4,4 Trimethylpersene (BNST) | 4 | Lat of the First 10 Chemical Substances Undergoing TSCA's Risk Evaluation |
| | Medium-chain chiorinated paraffina (MCCP) | 25 | Phanol, t-mathyl- | - 6 | n-Heighe |
| 1 | Azo pigments and azo dyes | x | Halagen (shiorine or bramine)-based compounds | 54 | 9-14C perfuorscentorylic acid (C9-C14 PFCAs) and th salts and C9-C14 PFCA related substances |
| 1 | Ptchalates | 31 | Polyvinyl chicride (PVC) and its compounds | 5 | Decebromodiphenylethane (DBDPE) |
| 1 | Berzene (for toys) | 20 | Tetrabromobilaphenol-A (TEOP-A) | | 2-(2H-bergstriazsi-2-y)-4.6-ditertpenty(phenol (UV-32) |
| 54 | Nokel and its compounds (in skin contact) | 2 | Antimony and antimony compounds | | a design and a start of the start of the start of the start |
| 1 | Cobelt chicride | 3 | Amerik and amerik compounds | | Prohibited substances in the GADGL |
| | C | òn | nment colu | m | าท |

(2)

<Selection of items to be guaranteed> 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.

[Description of Survey Formats] Certification of non-use of environment-related substances – 4/19



[Filling-in procedure of Certification top page(3)(4)(5)] Space for filling in basic information on procured items> Fill in the following information on procured item to be guaranteed. ATT: Japan Display Inc. Certification of non-use of environment-related substances general name of procured item Product name (general name) : (e.g.: back light, FPC (flexible printed circuit board), driver IC, polarizing plate, liquid crystal, etc.) Signature (or Seal JDI code : JDI item code (9 digits) specified by JDI : Supplier's type name and model number Model name unt NOT exceeding the chemical Manufacturer name : Company name which manufacturers Manufacturing site : Manufacturer's plant name where the items are made tely the JAPIA Sheet, Analysis Reports and SDS(MSDS) required by the JDI Gre 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. -> If YES for any of i), ii) and iii * All chlorine compounds and bromine compounds, including chlorine- and brominebased 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." ean RoHS directive used in the producticomponent. O Yes O N * In the case of antimony or antimony compounds, if a homogeneous material ent, model and exemption. Please use the annex "Exemption List" for extra space if neede includes more than 700 ppm, the condition is defined as "Contained." ohibited in the European RoHS Directive"? * In the case of arsenic or arsenic compounds, contained by intentionally added is C Yes C No defined as "Contained." These substances are not legally prohibited but are voluntarily prohibited by JDI as why fumance (OM concerned substances affecting the human body and the environment, and some of JDI's clients specify them as prohibited substances. ium (for toys in side conta 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. signation and any day Space for checking use of BFR or CFR> Answer about use of brominated flame retardant (BFR) or chlorinated flame retardant (CFR). Ver. 10.00 April 1, 2022

(6)



[Filling-in procedure of Certification top page(6)(7)]

| Certificati | on of | non-use of environment | -rela | ted substances | |
|---|---|---|---|--|---------------|
| | | | | Company name | |
| | | | | Division name: | |
| | | | | Position: Person in charge: | |
| | | | | Signat | ture (or Seal |
| | | | | TEL: | |
| | | | | E-Mail: | |
| We hereby certify that the delivered products/compon- | ents speci | fied below according to Japan Display Inc.'s (JD | fs) Gree | n Procurement Quidelines are as follows: | |
| 1. D in an amount NOT exceeding the che | minal cont | and lost specified | | | |
| | | nit specified, however it is expressly admitted by | - | | |
| | | | 300 | | |
| The constitution of the delivered products/components The content of the prohibited or controlled substances | is shown | in the ennex "Substance Survey Form" attached | | | |
| We submit separately the JAPIA Sheet, Analysis Repo | orts and S | DS(MSDS) required by the JDI Green Procurer | ent Guid | telnes as evidence. | |
| 1) Products/components delivered by us | | | | | |
| General name in industry | | Model name: Manufacturer name: | | | |
| | | Manufacturing alter | | | |
| 2) Please fil in the annex "Component List" attached. | | | | | |
| 3) Please fill in the annex "Substance Survey Form" at | tached. | | | | |
| Is any halogen (chlorine or bromine)/antimony/anser | nic compo | und used in the product/component? | | | |
| i) Halogen compound(s) | • | Yes D No Includes all chlorine and | bromine | compounds such as chiorinaled or brominated flat brine and bromine, or 1500 ppm total halogen in a | me relardante |
| ii) Antimony compound(s) | | Yes No Includes antimory and an Yes No Includes answrite and an | rêmory | compounds. "Yes" for more than 700 ppm in a hor | mogeneous ma |
| iii) Arsenic compound(s) -> If <u>YES</u> for any of (), ii) and iii) above-mention | ned, does | Yes No "Includes answric and an the compound(s) satisfy the JDI requirements? | whice com | pounds. "Yes" for contained by intentionally added | d. |
| | | Yes Requirements are not currently | fored | | |
| 5) Is any brominated flame retardant (BFR) or chlorin | ated fame | retardark (CFR) used in the product/component | t? | | |
| b) is any coated wire or recycled resin used in the pro- if yes, specify the component, material, and m | aterial ma | Yes D No | | | (|
| If yes, specify the component, material, and m | aterial ma | Yes D No ndlecturer. | | And rat | (|
| b) Is any coated wire or recycled reain used in the pro- if yes, specify the component, material, and m Commonst sea. 7) Is any material applied to the exemption in the Euro | eterial ma Maturi | Yes D No ndlecturer. | | for the second | (|
| If yes, specify the component, material, and m Commonent earse. 7) is any material applied to the exemption in the Euro If yes, please specify the component, model a | aterial ma Maturi pean Rol- | Yes No nulacture: Max Sideobe used in the productionponent? Max Yes No Son No Son Peases use the annes "Examption List" for: | estra spe | fert or | (|
| If yes, specify the component, material, and m Comment areas 7) is any material applied to the exemption in the Euro If yes, please specify the component, model a Component 1. | aterial ma Material pean Rol- D nd exemp Model | Yes No nufacturer. S directive used in the productionrponent? Yes No Kon. Presse use the annex "Exemption List" for | emption | | (|
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<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.

(7)

<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.



[Filling-in procedure of Certification top page(8)(9)(10)]

| | Certificatio | on of | non-use of environment | -rela | ted substances | |
|---|---|---|---|--|--|-----------------------|
| | | | | | Company name | |
| | | | | | Division name: | |
| | | | | | Position: | |
| | | | | | 6. v | Signature (or Seal) |
| | | | | | TEL | |
| | | | | | E-Mat | |
| We hereby | y certify that the delivered products/component | nts spec | ified below according to Japan Display Inc.'s (JD | rs) Gree | n Procurement Quidelines are as follow | |
| | | | | | | |
| 1. 6 | in an amount <u>NOT</u> exceeding the chem | ical con | tent limit specified. | | | |
| 2. 0 | in an amount exceeding the chemical o | ontent li | nit specified, however it is expressly admitted by | JDI. | | |
| The const | tution of the delivered products/components | ate show | n in the annex "Component List" attached. | | | |
| The conte | nt of the prohibited or controlled substances it | s shown | In the annex "Substance Survey Form" attached DS(MSDS) required by the JDI Green Procurem | 1 | tellines as excitences | |
| | s/components delivered by us | | colucion regares by the sol creen Procarem | | ARTES OF EVIDENCE. | |
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| veneral | JDI Code: | | Manufacturer name: | | | |
| | | | Manufacturing alter | | | |
| 2) Please | S in the ennex "Component List" attached. | | | | | |
| 3) Please | fil in the annex "Substance Survey Form" att | ached. | | | | |
| | | | | | | |
| +) is any h ib i | alogen (chlorine or bromine)/antimony/arsen Halogen compound(s) | | Yes No Includes all chiorine and | | compounds such as chiorinalised or bromina | |
| | | | "Yes" for more than 900 | ppm chi | brine and bromine, or 1500 ppm total halog compounds. "Yes" for more than 700 ppm is | en in a homogeneous n |
| iii) | Anterior compound(s) Arsenic compound(s) | 0 | Yes D No *Includes ansenic and an | aric com | compounds. "Yes" for contained by intentionally | y widded. |
| | If <u>YES</u> for any of (), ii) and iii) above-mention | ed, does | the compound(s) satisfy the JDI requirements? Yes D Requirements are not currently | | | |
| 5) is any l | brominated flame retardant (BFR) or chipdeat | | | | | |
| ., | | | Yes No | | | |
| 6) is any c | coated wire or recycled reain used in the prod | eticomp | conent? | | | |
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(8)
< 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.

(9)

<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.)

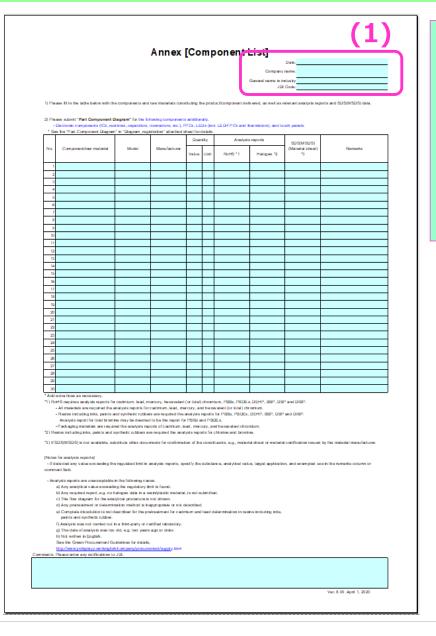
Refer to the "Table1: Standard of Prohibited and Controlled Substances in Product" in the Green Procurement Guideline for the regulated limits and other details.

(10)

<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 entering<="" for="" th=""><th>ı supplier's basic data></th></space> | ı supplier's basic data> |
|---|--|
| 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 |

[Description of Survey Formats] Certification of non-use of environment-related substances – 8/19



[Fill-in procedure of Annex [Component List] (2)]

| | | | | | | | | Date: | | |
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| | | | | | | | | Code: | | |
| | ass ill in the table below with th | | | | | | | | | |
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| | ase submit "Part Component Electronic components (ICk, re | | | | | | | | | |
| 1 54 | Electronic components (ICs, re | sistors, capacito n" in "Diagram | rs, connectors, etc.; egistration" attache | , HPCs, LE d sheet for | delata | d. LED-PPCs and 1 | harmlators), and to | uch panels. | | |
| | | | | Quantity Analysis reports | | | s reports | SDS(MSDS) | | |
| NG | Component/new material | Model | Manufacture | Value | Unit | RoHS 11 | Halogen 12 | (Material sheet) Permarks *3 | | |
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| 31 | | | | | | | | | | |
| "1) Ra | extra línea a a necessary. MS requires analysis reports fo | | | | | | | P and DIBP. | | |
| | All materials are required the Restrict including inks, paints: | and synthetic rul | thers are required if | e analysta | reports | for PBBs, PBDEs, | | and DIBP. | | |
| | Analysis report for total brom Packaging materials are requi | ine may be deer red the analysis | ned to be the report reports of cadmium | for PBBs a | ind PB Curv. 8 | DE s. nd hexavalent chro | mium. | | | |
| | aina including inka, painta and | | | | | | | | | |
| *3) If S | DS(MSDS) is not available, as | bslitule other do | cuments for confirm | aton of h | e consi | Illuents; e.g., materi | alsheet or materia | certification tasked | by the material manufacturer. | |
| | for analysis reports) | | | | | | | | | |
| | elected any value exceeding th entifield. | e regulated limit | in analysis reports, | specify the | i sute li | ance, analytical valu | ie, larget applicatio | n, and exempted us | e in the remarks column or | |
| | iysis reports are unacceptable | in the following | C BR BR: | | | | | | | |
| | a) Any analytical value exceed b) Any required report, e.g. no | ing the regulator | y limit is found. | of 10 | a ben tr | | | | | |
| | c) The flow diagram for the ans | lytical procedur | e bindishown. | | | | | | | |
| | d) Any pretreatment or determine e) Complete dissolution is not | | | | | Jelermination in rea | ins including inks. | | | |
| | paints and synthetic rubber. () Analysis was not carried out | | | | | | | | | |
| | g) The date of analysis was to: | | | | | | | | | |
| | h) Not written in English. See the Green Procurement G | | | | | | | | | |
| nents: I | <u>http://www.j-display.com/anglis</u> Pease antar any notifications to | h <i>i</i> company/proc 5 J DI. | urement/supply.htm | | | | | | | |
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<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

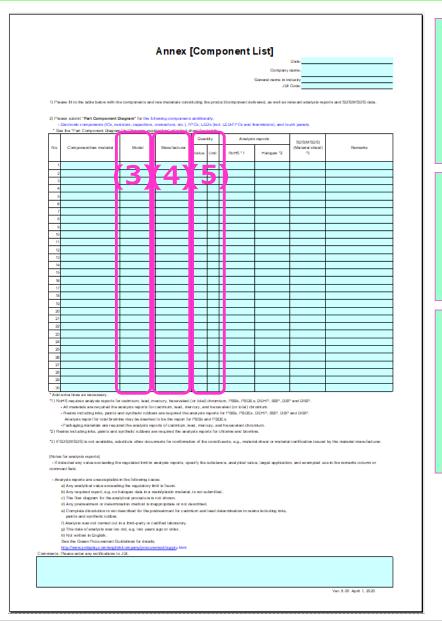
Filling example of component list down to raw materials

| Back light unit | Flexible p (FPC) | orint circuit | Tapes | Polarizing plate | Driver IC |
|---|-----------------------|---------------|--------------|----------------------|--------------|
| Frame | Gold plat | ing | Tape base | Separator | Die |
| Light guide plate | Nickel pla | ating | Adhesive | Adhesive | Gold bump |
| Reflecting sheet | Cover filr | n | | Base 1 | |
| Reflecting sheet adhesive tape | Cover ad | lhesive | | Base 2 | |
| Diffusion sheet | Conducto | or | | Polarizer | |
| Prism sheet, lower | Base film | ו | | Surface treatment | |
| Prism sheet, upper | Reinforci | ng film | | Protective film base | |
| Blackout double-sided tape Double-sided tape A | Reinforci adhesive | 5 | | | |
| Spacer | | | | | |
| Spacer adhesive tape | | | | | |
| FPC-base | | | | | |
| FPC-cover lay | - <u></u> | | | | |
| FPC-through hole surface plating | | | | les sub-com | |
| FPC-ink | | listing is t | o be comple | eted so that t | the complete |
| White LED-LED die | | structure | is made cle | ar down to tl | no raw |
| White LED-lead frame | | | | | |
| (base) | · | material I | evel in such | a way as fol | lows: |
| White LED-lead frame | | "sub-com | nonent nam | ne – raw mat | erial name" |
| (silver plating) | | | • | | |
| White LED-package White LED-die bond | · | | | ne 1 – sub-co | |
| | - | name 2 - | raw | material nar | ne″ |
| | | | | | |
| resin White LED wire | - | | | | |
| White LED-wire | · · · · · | | | | |
| | | | | | |
| White LED-wire | | | | | |
| White LED-wire White LED-mold resin | | | | | |
| White LED-wire White LED-mold resin White LED-fluorescent | | | | | |

[Description of Survey Formats] Certification of non-use of environment-related substances – 9/19



[Fill-in procedure of Annex [Component List] (3)(4)(5)]



(3)

<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."

(4)

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

(5)

<Component List: To enter quantity>

Enter the quantitative data of each component or raw material.

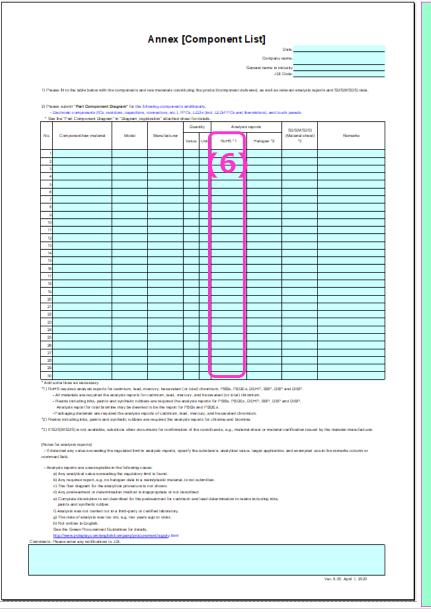
(The unit for countable components and materials is to be selected with "P.")

(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.)

[Description of Survey Formats] Certification of non-use of environment-related substances – 10/19



[Fill-in procedure of Annex [Component List] (6)]



(6)

<Component List: To check existence of analytical reports(RoHS)> 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.

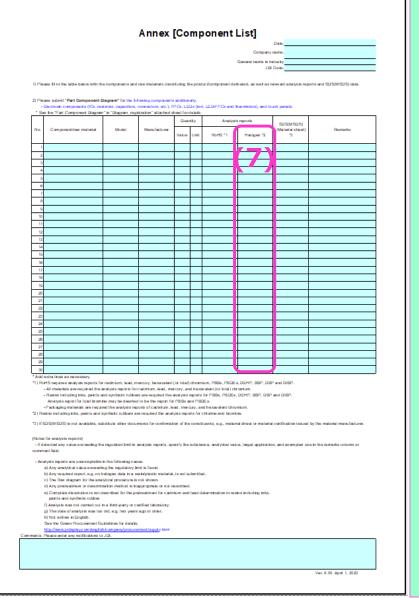
(The analysis results of total bromine may be alternatively used as the results for PBBs and PBDEs.)

* 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.



[Fill-in procedure of Annex [Component List] (7)]



(7)

<Component List: To check existence of analytical reports (halogen)> Enter existence information form 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.

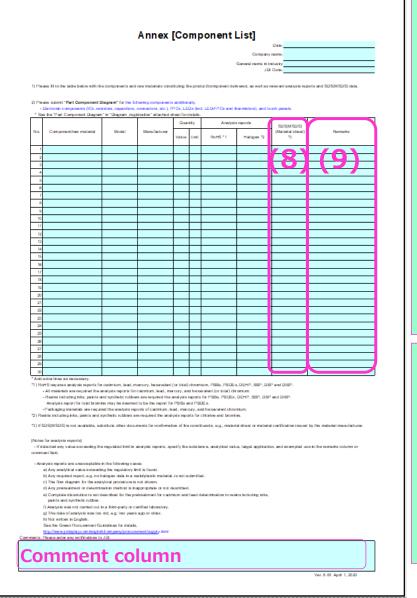
* The analytical reports need not be submitted for components supplied by our Company (Provided by JDI).

Refer to the main material "(iv) – 4. Analytical reports" for details.

[Description of Survey Formats] Certification of non-use of environment-related substances – 12/19



[Fill-in procedure of Annex [Component List] (8)(9)]



(8)

<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)

(9)

<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.

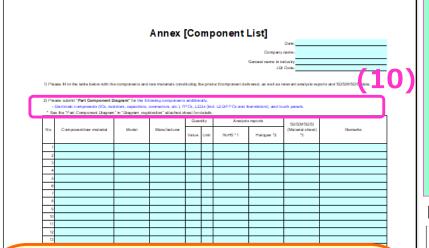
(e.g. "12,000 ppm lead was detected but falling under exemption by RoHS," etc.)

*Use the comment column if the space is not sufficient in the remarks column.

10



[Part Component Diagram]



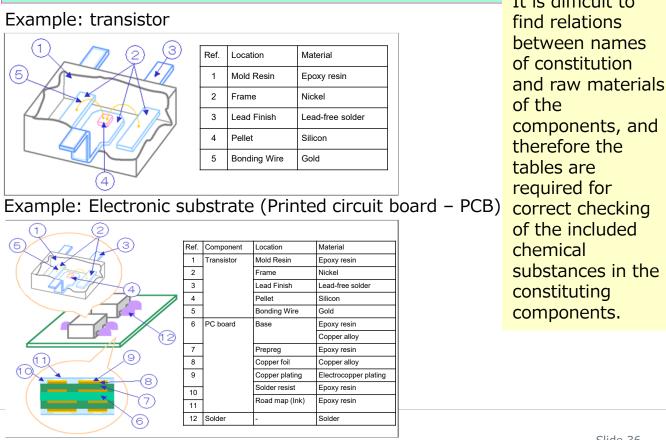
<Important !!> •The "Part Component Diagram" must be <u>registered in jDesc in any</u> <u>file form separately from the Non-</u> <u>Use Certification.</u>

 When registering in jDesc, <u>choose</u> <u>the document name of "Part</u> <u>Component Diagram" as the</u> <u>registration document name</u>.

| Comments: Please enter any notifics | lions to J DI. | | |
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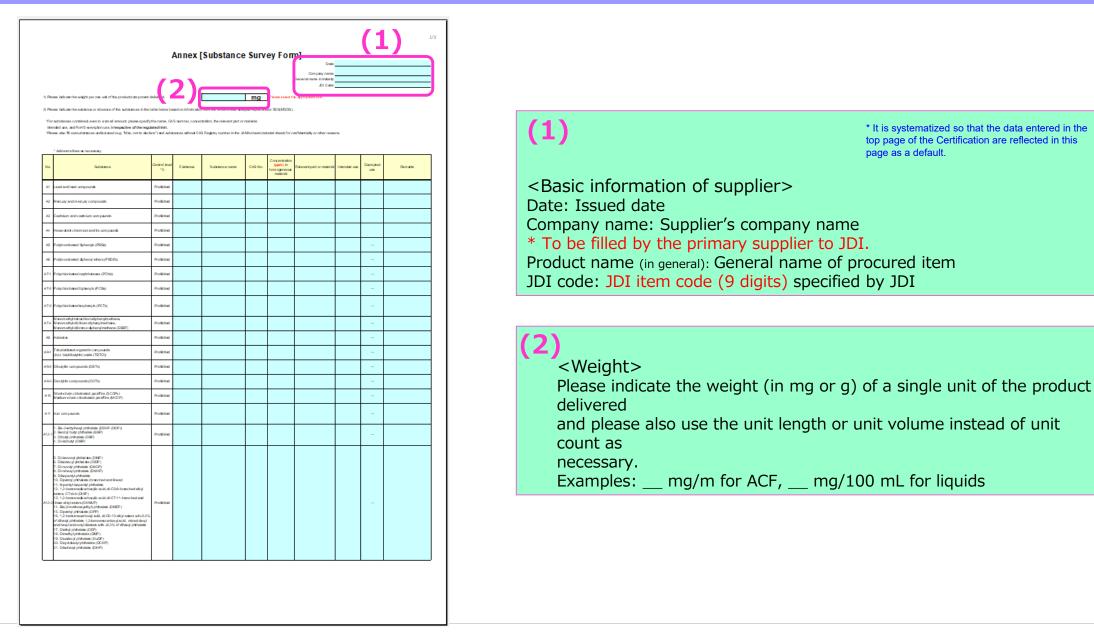
<Preparation of part component diagram> Prepare and submit part component diagrams for the following components:

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



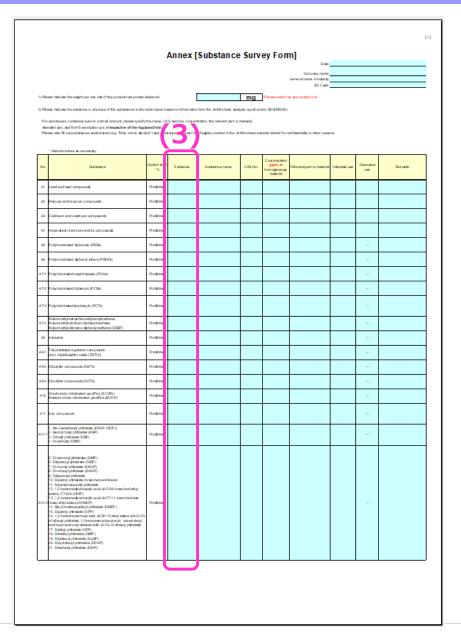


[Fill-in procedure of Survey Format attached (1)(2)]





[Fill-in procedure of Survey Format attached (3)]



(3)

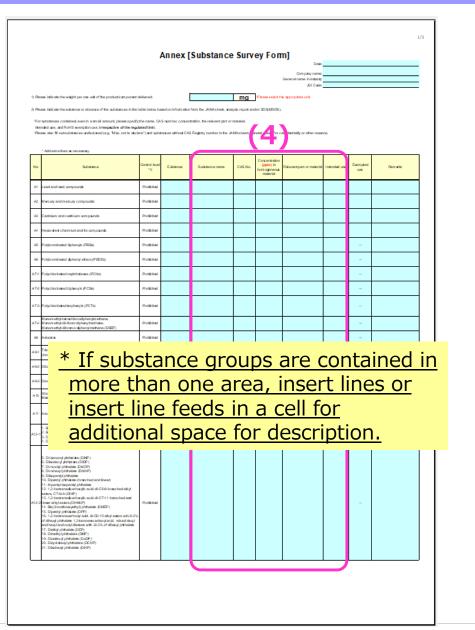
<Entering "Contained" or "Not contained" in the column> Enter whether the substances to be surveyed that are indicated on the Table are contained, based on the JAPIA Sheet, analytical reports, and the composition data in the SDS (MSDS).

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.

[Fill-in procedure of Survey Format attached (4)]



(4)

<Contained substance data> If <u>selected "Contained"</u> at (3), enter following data:

[Substance name]

General name in industry [CAS Registry No.] If the substance has no CAS No., enter a hyphen (-). [Concentration in homogeneous material [ppm]] Enter the content rate (Unit: ppm) of the homogeneous material. * For SVHCs, please give the weight concentration in the product. [Relevant part or material] Relevant part in the product where the substance is used, or the material containing the substance. (Use the same terms as in the "Component List") [Intended use] Peacon for the substance to contain in the material

Reason for the substance to contain in the material, e.g. improvement of characteristics, impurity, residue, etc.

*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.



[Fill-in procedure of Survey Format attached (5)]

| | Annex [Substance Survey Form] | | | | | | | | | | |
|--|-------------------------------|--|----------------|--------------------|---------------------------|-----------------|------------------|--------------------------|--------------|-------------------|-----------|
| <form><form></form></form> | Daw | | | | | | | | | | |
| | | | | | | | | General name in industry | | | |
| <text></text> |) Piec | we indicate the weight per one unit of the productic on ponent | delivered. | | | mg | Please select th | e appropilate unit | | | |
| |) Plac | are indicate the existence or absence of the substances in the | table below ba | aand on informatio | nform the JAMAsheet, anal | ysis report and | Stor SDS(MSDS). | | | | |
| | itte | nded use, and RoHS exemption use, irrespective of the regs | dated limit. | | | | | | | - | ` |
| No Lazza Ore Weiler Eakon Subsciences Coll Inc. Ore weiler Inc. Management Ma | | | | | | | | | | | |
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| A Marca and needs compareds Problem Pr | Na | Substance | Control level | Esitana | Substance name | CAS No. | (port) in | Reievantpart or material | Intended use | Evern pted une | Fem aria. |
| Image: Section and catches an equated. Problem | M | Laad and laad compounds | Prohibited | | | | | | | | |
| All Number of the number o | A 2 | Mercury and meacury compounds | Prohibited | | | | | | | | |
| 40 Page-technical diphony (RDB) Problem Problem <t< td=""><td>A0</td><td>Cadmium and cadmium compounds.</td><td>Prohibited</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | A 0 | Cadmium and cadmium compounds. | Prohibited | | | | | | | | |
| Interference Interference <th< td=""><td>M</td><td>Heavaiert chom iam and its com prands</td><td>Prohibited</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | M | Heavaiert chom iam and its com prands | Prohibited | | | | | | | | |
| 17 Participational (PDP) Problem 18 Participational (PDP) Problem 19 Participational (PDP) Problem 10 Participational (PDP) Problem 10 Participational (PDP) Problem 10 Participational (PDP) Problem 11 Participational (PDP) Problem 12 Participational (PDP) Problem 12 Pa | ĸ | Polybrominated tiphenyls (PBBs) | Prohibited | | | | | | | - | |
| Image: Second State | м | Polybrominated diphenyl ethers(PSDGs) | Prohibited | | | | | | | - | |
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| Low of state law of general states, hear of state law of general states, hear of state law of states (law); hear of states (law) (law); hear of states (law); h | k7-2 | Polychlorinated biphenyls (PCBs) | Prohibited | | | | | | | - | |
| Number of distance-determination (CMT) Image: distance distance distance Image: distance distance Image: distance distance Image: distance distance Image: distance <thimage: distance<="" th=""> Image: distance</thimage:> | | | Prohibited | | | | | | | - | |
| 46 exera rotate rotate - 145 for the debuggers compared rotate - - 146 for the debuggers compared rotate - - 147 for the debuggers compared rotate - - 148 for the debuggers compared rotate - - 149 for the debuggers compared rotate - - 140 for the debuggers compared rotate - - 141 for the debuggers compared rotate - - 142 for the debuggers compared rotate - - 143 for the debuggers compared rotate - - 144 for the debuggers compared rotate - - 145 for the debuggers compared rotate - - 146 for the debuggers compared rotate - - 147 for the debuggers compared rotate - - 148 for the debuggers compared rotate - - | A74 | M onom ethyl-tetrachioro-diphenylm ethane, M onom ethyl-dichioxi-diphenylmethane, M onom ethyl-dibron o-diphenyl methane (DGBT) | Profibitud | | | | | | | - | |
| Are Instruction of the instrument o | | | Prohibited | | | | | | | - | |
| | A94 | T ésubstituéed organotin com pounds. (incl. bis(tributyfin) colde (TRTO) | Prohibited | | | | | | | - | |
| All disclosubal grades (200) Instant If there is more than one exempted Code such as lead in components for a large product, add lines for description Instant Instant | 492 | Dibutytiin compounds (DBTII) | Prohibited | | | | | | | - | |
| * If there is more than one exempted code such as lead in components for a large product, add lines for description | 19 0 | Disch/lin compounds(DOTs) | Prohibited | | | | | | | - | |
| code such as lead in components for a large product, add lines for description | A 10 | Shot-chain chiolnated parafine (S.C.OPe.) Medium-chain chiolnated parafine (M.C.C.P) | Prohibited | | | | | | | - | |
| A BAR (C. TCAR, (1)) EF (C. A. C. TCAR, (1)) EF (C. TCAR, (1)) EF | | * If there is more than one exempted code such as lead in components for a large product, add lines for description. | | | | | | | | | |
| 17 Data provide (GP) 16 Data provide (GP) 16 Data provide (GP) 16 Data (GP) 16 Data (GP) 16 Data (GP) 17 Data (GP) 17 Data (GP) 19 Data (GP) 10 Data (GP) 10 Data (GP) 11 Dat | 42-2 | aams, C. Yehr, (DIP) 1. 3-barr readed, d. G. C. A. 1-barched and 1. 3-barr readed to the second second second second 1. Backness to second second second second second second 1. Control of the second second second second second second 1. Control of the second second second second second second 1. Control of the second second second second second second 1. Control of the second second second second second second 1. Control of the second second second second second second 1. Control of the second second second second second second second 1. Control of the second sec | Prohibited | | | | | | | - | |

(5)

<Entering applications exempted> If containing substances exempted from application of European RoHS Directive, select appropriate one on the pulldown menu.

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



[Fill-in procedure of Survey Format attached (6)]

| | | | | | | | Company name: General name in industry JDI Code: | | | | - |
|------------|---|---------------|-------------------|--------------------------|---------|-------------------------------------|--|--------------|---------------|-----------|----|
|) Pie | are indicate the weight per one unit of the productic on porent d | Selvered. | | | mg | Please select th | e appropriate unit | | | | - |
| Pin | ann indicate the existence or absence of the substances in the t | able below ba | and on informatio | often the JAMAsheet, and | | - | | | | | |
| itte | substances contained even in a small amount please specify inded use, and RolfS exemption use. Imagentive of the regul are also fill outsubstances underloaded (e.g. 'Mic. not to decla | lated limit. | | | | tedal sheet) for c | arfidentiality or other reaso | 66 | | (6) | |
| | " Add estra lines as necessary. | | | | | Concentration | | | _ | | ור |
| Na | Substance | Control level | Exitience | Substance name | CAG No. | (ppm) in homogeneous material | Relevantpart or material | Intended use | Eempte une | Fem aria. | |
| M | Lead and lead compounds | Prohibited | | | | | | | | | |
| A 2 | Il excuty and measury compounds | Prohibited | | | | | | | | | |
| A 0 | Cadmium and cadmium compounds. | Prohibited | | | | | | | | | |
| M | Heavyalert chemium and its compounds | Prohibited | | | | | | | | | |
| AS | Polybrominated biphenyls (PBBs) | Prohibited | | | | | | | - | | |
| AG | Polybrominated dphenyl ethers(PSIDEs) | Prohibited | | | | | | | - | | |
| 74 | Polychiorinated naphthaleme. (PCNa) | Prohibited | | | | | | | - | | |
| 7-2 | Polychiorinated biphenyls (PCBa) | Prohibited | | | | | | | - | | |
| .7-0 | Polychiorinated terphengis (PCTs) | Prohibited | | | | | | | - | | |
| 74 | N onon ethyl-tetrachioro-diphenylm ethane, N onon ethyl-dichioor-diphenylmethane, N onon ethyl-dibron o-diphenylmethane (DGBT) | Prohibited | | | | | | | - | | |
| AD | Arbeita. | Prohibited | | | | | | | - | | |
| 194 | T daubstituted organistic compounds. (Incl. bis(tribut) fin) colde (TB TO) | Prohibited | | | | | | | - | | |
| 92 | Dibudytlin com pounds (DB TII) | Prohibited | | | | | | | - | | |
| 49-0 | Dioch/lin compounds(DOTs) | Prohibited | | | | | | | - | | |
| A 10 | Shot chain chiolnated parafine (SCOPE) Molium chain chiolnated parafine (MCCP) | Prohibited | | | | | | | - | | |
| Att | Azo com pounds | Prohibited | | | | | | | - | | 1 |
| 12-1 | 1. Bit-2-ethylhoug phthalase (DGHP (DCP') 2. Benzy budg phthalase (BGP) 3. Dibudg phthalase (DGP) 4. Dibudg (DGP) | Prohibited | | | | | | | - | | |
| H2-3 | C. Diversity database (DPP) E. Diversity database (DPP) | Profibilitad | | | | | | | - | | |

(6) <Comment>

It is requested that suppliers fill supplemental explanations and information to JDI, if any, in the Remark or Comment column.

| - | | | | | | | | | | |
|------------|--|-------------|----------------|----------------------------|---------------|------------------|---------------------------|------|---|-------------------------|
| BS | Proposition 65 List of Chemicals "5) | Controlled | | | | | | | - | |
| B6 | Washington State's List of Chemicals of High Concern to Children (CHCC) '6) | Controlled | | | | | | | - | |
| 87 | 1-bromopropane | Controlled | | | | | | | - | |
| B 8 | Phosphorus flame retardant | Controlled | | | | | | | - | |
| | Red phosphorus | Controlled | | | | | | | - | |
| B10 | Bisphenol F Bisphenol S | Controlled | | | | | | | - | |
| B11 | Volatlie Organic Compounds (VOCs) | Controlled | | | | | | | - | |
| B12 | Cobalt and its compounds | Controlled | | | | | | | - | |
| B13 | Endocrine Disrupting Chemicals (EDCs) | Controlled | | | | | | | - | |
| B14 | IEC 62474 Substances "7) | Controlled | | | | | | | - | |
| B15 | Indium Phosphide | Controlled | | | | | | | - | |
| | Per- and Polyfluoroalkyl Substances(PFAS) | Controlled | | | | | | | - | |
| •1) | See "Standard of prohibited and controlled substances in For substances contained in the product/component dell | | | | | | | | | |
| -2) | Class 1 Designated Substances according to the Japane | se Chemical | Substances Con | trol Law, including author | ized substand | es, as of the da | te of issue of this docum | ent. | | |
| 1 | JDI Green Procurement Guidelines are available at: http://www.idsobsv.com/workshonmany/strocuments/supply.html EU REACH ANNEX XIV and XIV accounting UE ID REACH regulation, as of the date of issue of this document. The list is available at the following URL: EU REACH ANNEX XIV: <u>thtp://cha.wrcc.aw.uku/documents/supply.encounting</u> EU REACH ANNEX XIV: <u>thtp://cha.wrcc.aw.uku/documents/supply.encounting</u> EU REACH ANNEX XIV: <u>thtp://cha.wrcc.aw.uku/documents/supply.encounting</u> EU REACH ANNEX XIV: <u>thtp://cha.wrcc.aw.uku/documents/supply.encounting</u> | | | | | | | | | |
| *4) | | | | | | | | | | |
| | Proposition 65 List is available at the following URL: http://orthina.com/proj055/proj56 listNewskii.ktml_ | | | | | | | | | |
| 1 | Proposition 65 List is available at the following URL: http://oehha.ca.gov/prop65/prop65_list/Newlist.html | | | | | | | | | |
| *6) | Proposition 65 List is available at the following URL: http://de/ha.ca.gov/pro65/pro65/listNewlist.html CHCC is available at the following URL: http://apps.leg.via.gov/WACkletaut.aspv?cite=173-334-1 IEC 62474 substances are available at the following URL http://delec.viec632474 | | | | | | | | | |
| *6) *7) | Proposition 65 List is available at the following URL: http://orbin.ca.gov/orpod5/bind/sociality/ http://orbin.ca.gov/orpod5/bind/sociality/ http://orbin.ca.gov/orbind/sociality/ http://orbind/sociality/ Lift2/ind/sociality/ http://orbind/sociali | | | | | | | | | |
| *6) *7) | Proposition 65 List is available at the following URL: http://de/ha.ca.gov/pro65/pro65/listNewlist.html CHCC is available at the following URL: http://apps.leg.via.gov/WACIdefault.asp/?cite=173-334-1 IEC 62474 substances are available at the following URL http://dialec.uHec62474 | | colu | ımn | | | | | | Ver. 7.00 April 1, 2019 |

[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 : <u>https://www.japia.or.jp/work/kankyou/japiasheet/</u> * All materials are posted.
- English page : <u>https://www.japia.or.jp/en/activities/environment/japiasheet/</u> * 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.
- * Japanese page : <u>http://www.j-display.com/company/procurement/supply.html</u>
- * English page : <u>http://www.j-display.com/english/company/procurement/supply.html</u>

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

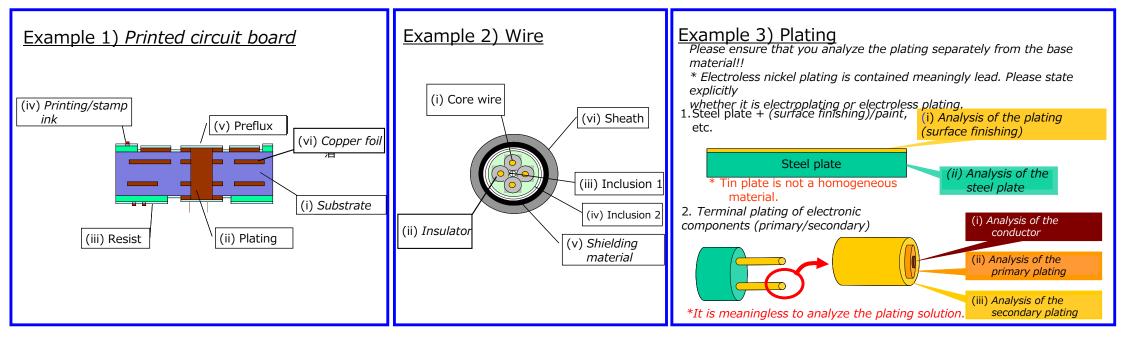


The analytical reports requested by JDI are to satisfy stipulations in (1) through (7).

Any report that fails 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:



* Note that, If requested by our customers, procurement items in <u>a liquid state (examples shown below) should be analyzed in</u> <u>the state after product molding (after drying)</u>. (e.g. flux, adhesive, coating agent, paste agent, ink, paint, resist, etc.)

[Description of Survey Formats] Analytical reports – 2/6

- (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

| | Procured item | s for products | | |
|--|---|---|---------------------------------|---|
| Substances to be analyzed | Resin <i>materials</i> (including ink, paint and synthetic rubber) | Other than Resin material (metal, glass, ceramics) | Packaging and packing materials | |
| Cadmium (Cd) | Required | Required | Required | |
| Lead (Pb) | Required | Required | Required | |
| Mercury (Hg) | Required | Required | Required | 6 substances of |
| Hexavalent chromium (Cr(VI)) Note 1) | Required | Required | Required | European RoHS |
| PBBs Note 2) | Required | If needed | If needed | |
| PBDEs Note 2) | Required | If needed | If needed | |
| Chlorine (Cl) | Required | If needed | If needed | Halogen (chlorine, |
| Bromine (Br) | Required | If needed | If needed | bromine) |
| Phthalate esters (DEHP, BBP, DBP, DIBP) | Required | If needed | If needed | Phthalate esters of European RoHS |

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

| Substance to be | Recommended | Recommended analysis method | | | | |
|---|-----------------|-----------------------------|--|--|--|--|
| analyzed | detection limit | Pre-conditioning | Analysis | | | |
| Cadmium (Cd) | 2 ppm or less | | | | | |
| Lead (Pb) | 10 ppm or less | | ICP emission spectrometry | | | |
| Mercury (Hg) | 2 ppm or less | | | | | |
| Hexavalent chromium(Cr (VI)) | 2 ppm or less | IEC62321 | ICP emission spectrometry, UV – Vis | | | |
| PBBs | 5 ppm or less | | Gas chromatograph-mass | | | |
| PBDEs | 5 ppm or less | | spectrometry | | | |
| Chlorine (Cl) | 50 ppm or less | EN14582 | Ion chromatography analysis | | | |
| Bromine (Br) | 50 ppm or less | LN14J0Z | Ion chromatography analysis | | | |
| Phthalate esters (DEHP, BBP, DBP, DIBP) | 50 ppm or less | IEC62321 | Gas chromatograph-mass spectrometry | | | |

(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, ASTMF963-96a, 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 reportsAn 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.)

[Description of Survey Formats] Analytical reports – 6/6

(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.

| Substance to be analyzed | Materials subject to analysis | Analysis method |
|--|--|--|
| Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent chromium (Cr (VI)) | All materials | IEC 62321 or other methods approved in advance by JDI |
| PBBs PBDEs Phthalate esters (DEHP, BBP, DBP, DIBP) | All materials except metals, glasses, or ceramics | |
| Chlorine (Cl) Bromine (Br) | All materials except metals or ceramics | EN 14582 US EPA SW-846 5050/9056 or other methods approved in advance by JDI |
| Arsenic (As) | Glass | Total acid digestion followed by ICP-MS |
| Beryllium (Be) | Metal alloys including copper and beryllia ceramic *For metals, alloys, and solders, a certified mill test report (also known as "mill sheet") that contains detailed composition information can be accepted in lieu of the analysis report. | US EPA 3050B US EPA 3052 or other methods approved in advance by JDI |
| PFOS, PFOA | Inks, paints, leather, textiles, and coatings | DIN CEN/TS 15968 or other methods approved in advance by JDI |

<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 <u>cured state after drying</u>, 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.

 \rightarrow For coatings including plating, analysis shall be conducted <u>after the completion of coating (plating)</u>. For coating materials that cannot be mechanically peeled off from the base material, analysis may be conducted for the base material after the completion of coating (plating). Analysis in the liquid state (plating liquid) before its application is not acceptable. (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.

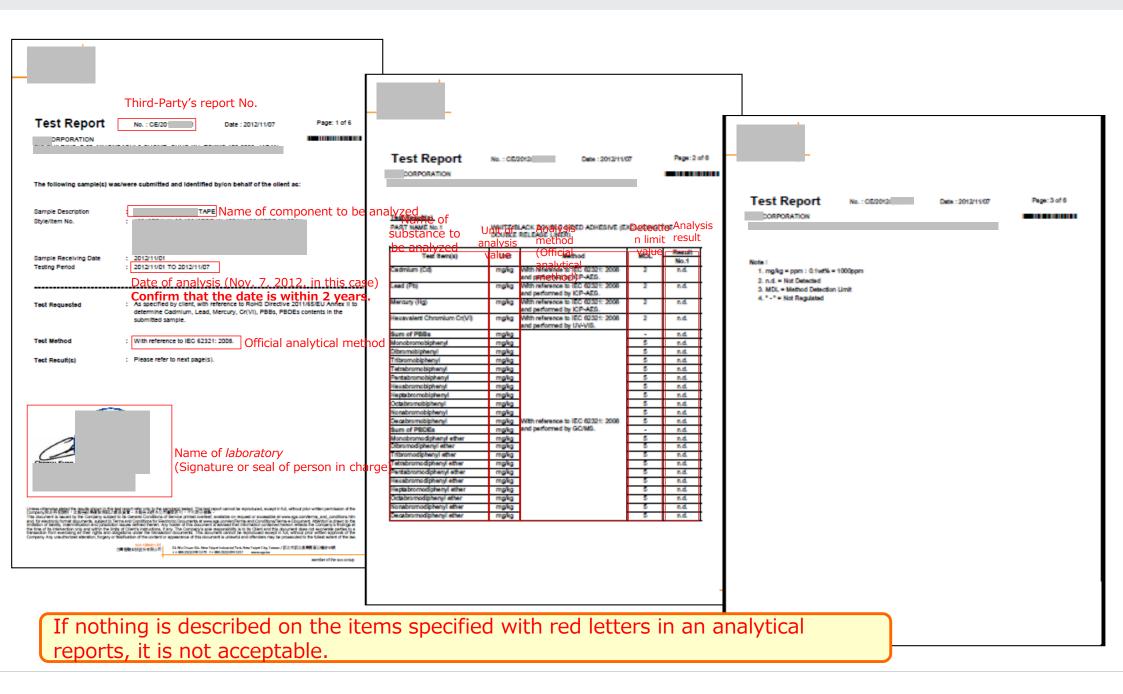
 \rightarrow Must be in English (containing any other languages is acceptable).

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

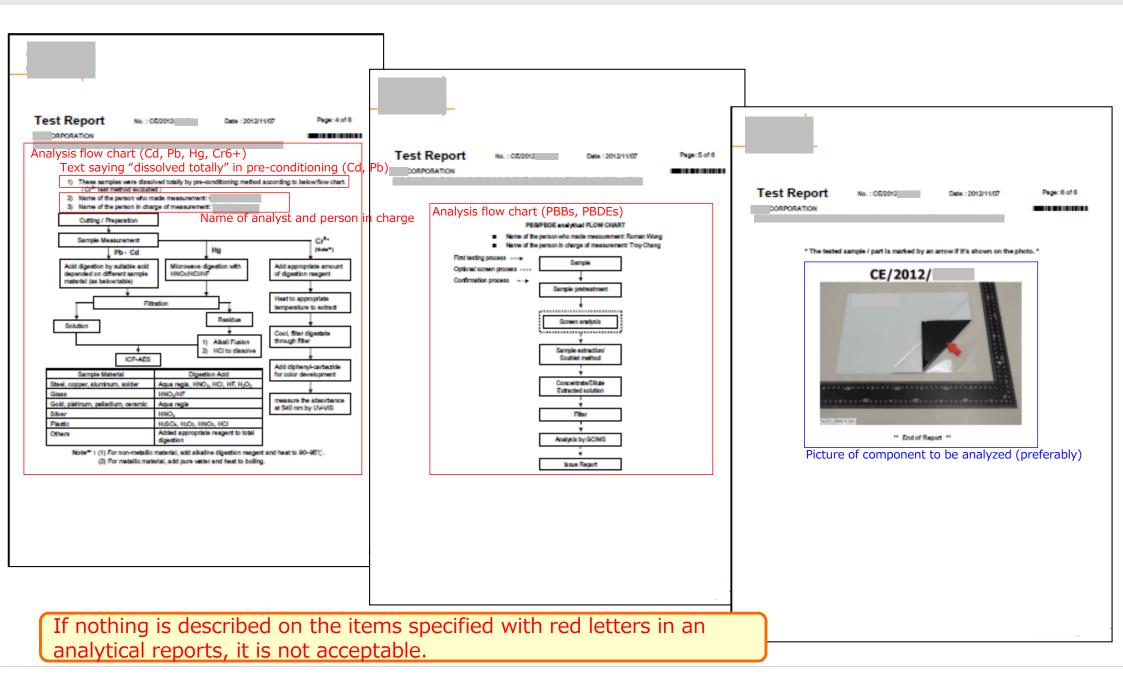
→ Include a photo of each sample analyzed.

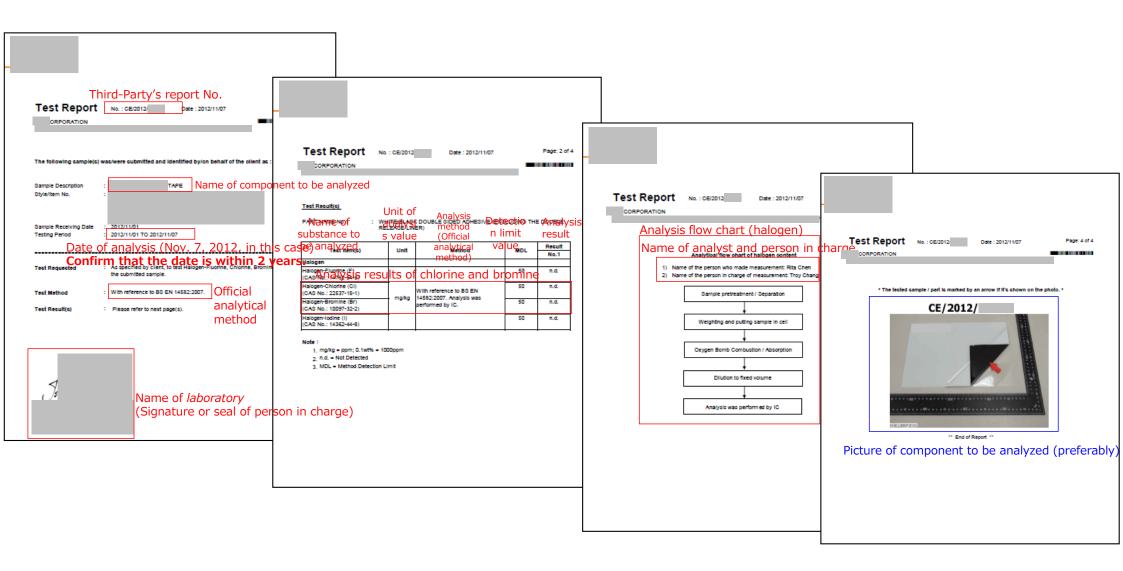
→ Must be an original pdf file issued by the laboratory. A printed or edited PDF file will not be accepted.

[Description of Survey Formats] Analytical reports (Examples of European RoHS analysis – 1/2)



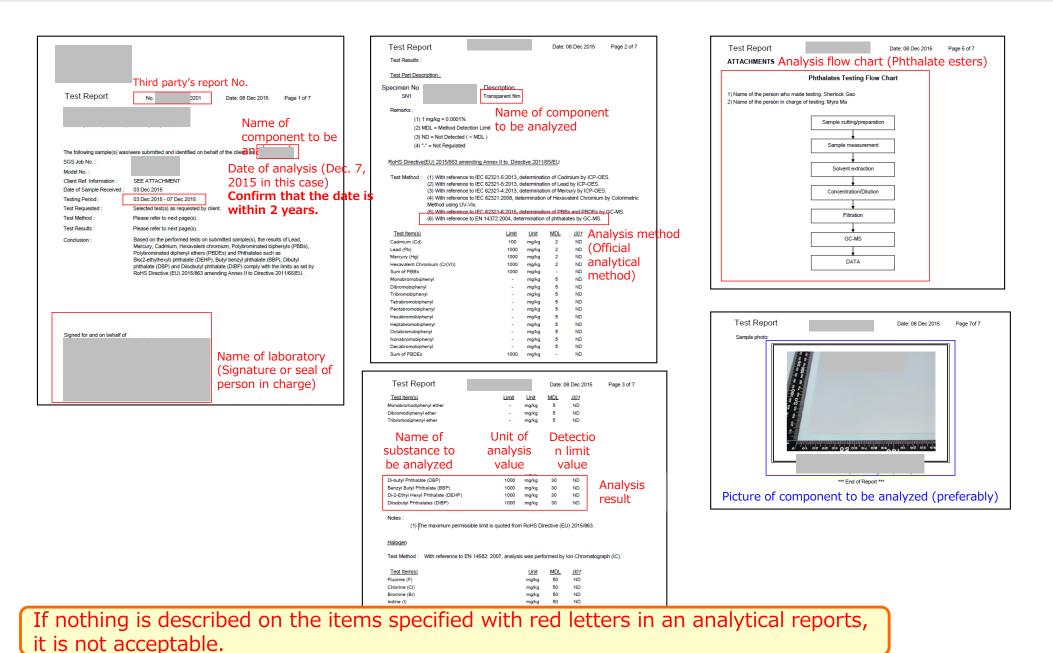
[Description of Survey Formats] Analytical reports (Examples of European RoHS analysis – 2/2)





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 Phthalate esters – 1/1)

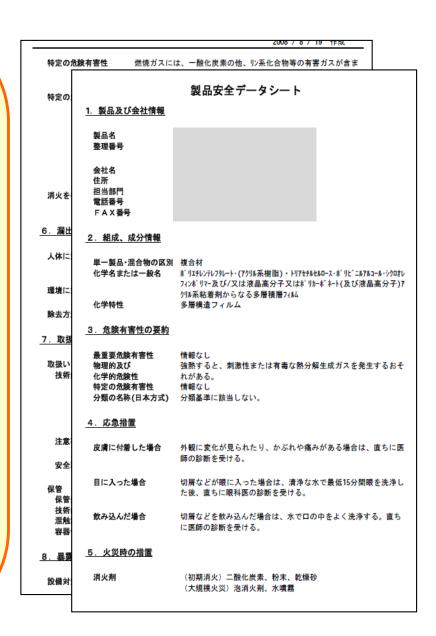


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(iv) – 5. SDS(MSDS) (material sheet)

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 <u>except the</u> <u>above</u>.
- 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: <u>http://www.j-display.com/company/procurement/supply.html</u>

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

(vi) 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.

