

# Japan Display Inc.

# **JDI IMDS Datasheet Creation Manual**

Japan Display Inc.

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#### Introduction 1

- 1-1 Objectives1-2 Scope

1 Introduction

#### 1-1 Objectives

This manual describes how to create and report Substance Research Data using IMDS\*1.

Refer to IMDS Recommendation, IMDS User's Manual\*<sup>2</sup>, and IMDS Training Guide in regard to how to input IMDS data basically.

Refer to this manual for requirements specified by JDI only.

\*1 IMDS(International Material Data System):

The system particularly developed by the Verband der Automobilindustrie (VDA). The system is a database system of global automobile industry standards. The system is also operated by predominant global automobile manufacturers memberships. \*<sup>2</sup> IMDS User's Manual: User's Manual for the Material Data System (IMDS).

Use this manual for improving the quality of MDS data.

#### 1-2 Scope

This manual is applied to IMDS data sent by suppliers.



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## 2 Basic concept on IMDS Reports

- 2-1 How to research and report
- 2-2 On confidential information
- 2-3 Reactive materials in delivered items

#### 2-1 How to research and report

Please be advised that suppliers report us parts and materials after exploring included substances (components) through going back across your supply chains.



\*3 IMDS (International Material Data System):

This system is the database on the web for which automobile businesses collect MDSs to cope with environmental laws and regulations. The system is also broadly used through supply chains aiming to submit their MDS for the final goal to automobile manufacturers as communication means of MDS.

#### \*4 **MDS** (Material Data Sheet):

Data regarding materials that constitute products and parts, and compounds that constitute the materials.

#### 2-2 On confidential information

For non-disclosure substances (components), the maximum content is up to 10% per homogeneous material. In this regard, avoid including substances regulated by GADSL in the non-disclosure substances.

\* For GADSL, refer to "6-1 Always report substances listed on GADSL."

#### 2-3 Reactive materials in delivered items

Report as materials are on delivery to us.

Report a substance that is finally included in (adhered to) the product after reaction such as resins, adhesives, coatings, solder, and plating.

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## 3 How to input to IMDS (fundamental)

- 3-1 IMDS Recommendation
- 3-2 IMDS User's Manual and IMDS Training Guide

#### 3-1 IMDS Recommendation

The IMDS Recommendations are used for the input rule for the IMDS. The recommendations indicate what the IMDS steering committee recommends.

IMDS Login<u>https://www.mdsystem.com/imdsnt/faces/login</u> After login to IMDS, download the file as follows and confirm it.





#### 3-2 IMDS User's Manual and IMDS Training Guide

Download the IMDS User's Manual and IMDS Training Guide from the URL below. Japanese <u>https://public.mdsystem.com/ja/web/imds-public-pages/faq</u>

English https://public.mdsystem.com/en/web/imds-public-pages/faq

Chinese https://public.mdsystem.com/zh/web/imds-public-pages/faq



## JDI Japan Display Inc.

4 How to input and notes (with specific notes from JDI only included)

- 4-1 List of JDI Specific Requirements
- 4-2 Basic items
- 4-3 IMDS Committee-Approved Materials
- 4-4 Names of materials and goods
- 4-5 "Prior Declarations" for the preparation step of mass production
- 4-6 Application Code
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- 4-8 Recyclate Information
- 4-9 Parts Number Subject To Submission
- 4-10 When parts supplied by JDI are included
- 4-11 On submission of MDS Reports

4-12 How to transfer data

#### 4-1 List of JDI Specific Requirements

- For creating an IMDS data sheet, JDI Specific Requirements are in the following. Create an IMDS data sheet that meets the JDI-Specified Requirements.
- After completing data transmission, create MDS Reports to register your reply to jDesc (JDI control system of chemical substances included in supplied products).

Category	Description	Reference slide		
Basic items	<ul> <li>Basic items</li> <li>Enter a part name/part number as specified by us.</li> <li>When correcting or re-reporting for the product with the same part number, use a new version upgrade with the same MDS ID remained.</li> <li>Basically, report a new version with a decimal used.</li> <li>Check [Forwarding allowed].</li> </ul>			
Names of materials and goods	Your entry is optional. For the entry, avoid entering "the product name for the name". Suppliers are advised to take into consideration themselves about confidential information.	23		
"Prior Declarations" for the preparation step of mass production	Avoid submitting "Prior Declarations" data sheets for the preparation step of mass production unless we ask that.	24		
Parts supplied by us	<ul> <li>When parts supplied by us are included, register after removing the parts from the composition.</li> <li>Report the total weight after the weight of parts supplied by us are excluded.</li> </ul>	31		
MDS Reports	<ul> <li>After completing data transmission, create an MDS Report to register your reply to jDesc.</li> <li>For the MDS Reports, submit "the complete report in English based on the JDI perspective".</li> </ul>	32 to 34		

is attached.

JDI Specific

Requirements



#### 4-2 Basic items

IMDS Screen	Items	How to input	
Configuration	(1) Parts name (TOP)	Enter a supplier's part name or any name.	
Information Screen	(2) Part number (TOP)	<ul> <li>Enter a supplier's part number or any part number.</li> </ul>	
	(3) Part name (subparts)	Enter a supplier's part name or any part name.	
	(4) Part number (subparts)	<ul> <li>Enter a supplier's part number or any part number.</li> </ul>	
Destination Information Screen	(5) Destination company ID/organization ID	• Select "103885".	
	(6) Supplier Code	Enter the Supplier Code. (optional)	
	(7) Name	Enter JDI Item Name.	
	(8) Part/Item No.	Enter JDI Item Number.	
	(9) Forwarding allowed	Check [Forwarding allowed].	JDI Specific Requirements
Common to all screens	(10) ID/Version	<ul> <li>When correcting or re-reporting for a product with the same part number, use a new version with the same MDS ID.</li> <li>Basically, send a version with a decimal used.</li> <li>* If responses described above such as transferring data sheets received from suppliers are prohibited, transferring a new MDS ID/integer version is allowed.</li> </ul>	

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#### 4-2 Basic items

<Configuration Information Screen>



#### -1-----

#### 4-2 Basic items

#### <Configuration Information Screen>



#### **Basic items** 4-2

#### <Re scre

ainiant data	MDS - Functions - Administration - Help -	》 12 マ   2 マ 2 マ   67 ⊜ % ♥ 4
cipient data	MDS/Module Search Ingredients * Supplier Data *	Recipient data * Analysis MDS Request
en>	Name Component_1222065358   ID version 1222065358 / 0.01   Node ID 122	22065358 Status Edit mode
	🕼 🥵 🤤   🗋 Send 🔹 Propose 🛛 🚺 Release Internal 📑 Publish	1
	翰 🖓 Japan Display Inc. [103885] edit mode (05/19/2023)	Details
		✓ Transfer Information
	(5) Destination company ID/organization	Company Japan Display Inc. [103885]
	ID Select "103885"	Organisation unit -
	ID Select 103005.	
	(6) Supplier Code (optional)	
	Enter the Supplier Code	Name PRODUCT
		Part/Item No. A12345678 (?)
ſ	(7) Name	Legacy Spare Part 🗌 🕜
	Enter JDI Item Name.	Transmission/Check Date not available
		Forwarding allowed
JDI Specific	(8) Part/Item No.	✓ Drawing
Requirements	Enter JDI Item Number.	
	(0) Forwarding allowed	
	(9) Forwarding allowed	Drawing Change Level
L	Check [Forwarding allowed].	Y Purchase Order
		Purchase Order No.
		Benert
		Peport No
		Date of Peppert mm/dd/vvvv

#### 4-2 Basic items

<common all="" screens="" to=""></common>	MDS + Functions + Administration + Help + MDS/Module Search Ingredients Suppose Name PRODUCT ID version 1173219901 / 1 Marce PRODUCT ID version 1173219901 / 1 Release Interview MDS + Functions + Administration + Help + Component Search Ingredients	Iier Data       Recipient da         TD 1173210901       Status Internal         Publish       Det         22       Det         Supplier Data       Recipient da	<ul> <li>(10) ID/Version</li> <li>When corresion</li> <li>with the sare the same N</li> <li>Basically, results</li> </ul>	n ecting or re-reporting for the product me part number, use a new version with IDS ID basically. eport a new version with a decimal	JDI Specific Requirements
	Name, ID, Version, Date Description Part/Item No. ID Curre Preliminary MDS Pate Date published / accepted / internat from Edit Form View Regulation Recreat Forward Forward	Ily released	<how to="" upgra<br="">Select the ta components version] in se created to er</how>	de the ID version> arget data displayed by searching the and select [Menu] $\Rightarrow$ [Copy] $\Rightarrow$ [new equence. The data sheet upgraded is hable editing.	
	SCIP Submission Copy to clipboard Copy to clipboard Convert module to MDS View - Convert module to MDS View - Convert module to MDS Submit MDS to SCIP	part/Item No. 1234567	v them using "View" butt ID / Version 1173219901 / 1		

#### 4-3 IMDS Committee-Approved Materials

- In the IMDS rule, when IMDS committee-approved materials are provided in official standards, the materials shall be used.
- When the material is provided, use material data sheets disclosed by the IMDS steering committee instead of creating a data sheet on your own. (IMDS Recommendation 4.4.1.1)

#### \* What is the IMDS Committee-Approved Material?

- The material above is the standard material (that means the data sheet disclosed by the IMDS steering committee).
- In the IMDS, official standard materials specified by international standard organizations such as EU (including EN·DIN standards), Japan (JIS standard), U.S. (ASTM standard• UNS standard), ISO standard are registered as IMDS committee materials.

#### 4-3 IMDS Committee-Approved Materials

#### <How to input IMDS Committee-Approved Materials>

#### (1) Confirming material information

 Confirm JIS standard numbers and material codes based on information such as specifications, drawings, JIS standard numbers or others.

<Example>An example of stainless-steel bar is given.

#### JIS standard number: JISG4303 Material Code: SUS316N

JIS standard numbers and Material Codes can be confirmed on the website of the JIS standard or other sources.

JIS standard website: http://www.jisc.go.jp/

An excerpt from the JAPIA external list in the following, "MAT" sheet can also be referred.

	Material name	-	Norms/Standards (Public standard)	Material number (Metal or other than plastics or rubber materials)	Material symbol (plastics or rubber)	VDA Classificatio	IMDS Name	
	Stainless Steel SUS316N	-	JISG4303	SUS316N		1.1.2	SUS316N	
Δ	T MAT UNIT2	IMDS_P	CTYPE   IMDS_1	NORM IMDS_CATEGORY	$\oplus$			

#### To be continued on the next page

#### 4-3 IMDS Committee-Approved Materials

#### (2) Confirming the IMDS registrations

- Enter the JIS standard number: JISG4303 and the Material Code: SUS316N on the Material Search Screen of IMDS.
- The IMDS controls materials by setting the module ID and its version.
   New version data may be registered in case of updating official standards and correcting a clerical error or other events.



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#### 4-3 IMDS Committee-Approved Materials

#### (3) Confirming the IMDS registrations



#### 4-4 Names of materials and goods

- Input is optional. For the entry, avoid entering "the product name for the name."
- We are not allowed to correct data received from suppliers. Suppliers are advised to take into consideration themselves about confidential information of products/materials or its related information.

MDS - Functions - Administration - Help			
Material Search Ingredients Suppli	er Data Recipient data Analysis MDS Request		
😥 📁 Filter GADSL	🗸 🔍 Show regulatory information 🍏 👻 🎯 👻 🔧		
<ul> <li>PET</li> <li>99.9% Polyethylene terephthalate</li> <li>Rest 0.1% Misc. not to declare</li> </ul>	Details		
	Avoid entering "the product name for the name". The field may be blank if the name is confidential.		JDI Specific Requirements
	Node count 6 Name PET *		
	Trade name Internal MatNo. A12345678		
	Preliminary MDS	-	

\*Contact us separately if a material name cannot be corrected because a material manufacturer has prepared the material or other reasons.



#### 4-5 "Prior Declarations" for the preparation step of mass production

- Submit data of mass-produced parts to us.
- Avoid submitting "Prior declarations" data sheet for preparation of mass production step unless we ask that.

#### [Notes]

Data received from overseas second suppliers may include data with data checked in the diagram below included. If those data
are included, our customers may refuse to receive them. In that case, note that re-submission and re-investigation will be required,
even if those data are identical.



#### 4-6 Application Code

#### <Entry rule>

- Enter the code that meets the application of the product in the Application Code.
- \* When entering 0.1% or more of lead as impurity, report it using "Application Code 44". Avoid entering "0" for the minimum because the Application Codes other than 44 to 47 would be intentionally used. For those cases, we may request corrections if our customer asks us to do it.
- If changes in exemption of product item (fragmentation of Application Codes) and disabling of Application Codes (13, 16, 58, etc.) are provided, we may request updating of data already reported.
- When creating a data sheet, use the latest Application Codes, reviewing "How to find the latest Application Codes" on the next page.

#### 4-6 Application Code

#### <How to confirm the latest Application ID>



#### 4-7 Filler Code

Create a Filler Code based on the Compound Information of fillers and enter it in the Material Data field.

- When two kinds of fillers are provided, enter them in descending order of the component ratio following "+" like -(GF20+TD10).
- Express a filling rate numerically by an integer rounded off one decimal place. (Example : 10.3→10、11.8→12)



#### 4-8 Recyclate Information

 Select whether recycled materials are used or not. \*Be sure to input recycling information that causes an error in the IMDS error check.

When the recyclate is used, please input all the required items.



#### 4-8 Recyclate Information

#### <How to check response to Recyclate Information>

• Responses for Recyclate Information can be checked by the search function of IMDS.



#### 4-9 Parts Number Subject To Submission

Submit IMDS data of a delivery unit with a part number for us. Avoid submitting with a subpart unit.



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JDI Specific Requirements

- When parts supplied by us are included, register after removing the parts from the composition.
- Report the total weight after the weight of parts supplied by us are excluded.



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#### 4-11 On submission of MDS Reports

JDI Specific Requirements

After completing data transmission, create an MDS Report in English to register it to jDesc (JDI Control System of Chemical Substances included in Supplied Products). In terms of how to register in jDesc, check the "jDesc Operation Manual for Supplier".

#### <How to create the MDS Reports in English>

(1) Select [System control]  $\Rightarrow$  [Language]  $\Rightarrow$  [English].

コンボーネント検	,		Deutsch	先情報	分析	入力依赖
🧉 個人設定	Alt+Shift+P	*	English		-	
名称, ID, バージョン, 📔 パスワード変更			Italiano			他社データシー
④通知		=	Español		1	□承認データ
部品番号			Português			
ID	1178416877		Français	バージョン	~	
量産準備初期段階の「事前甲告」データ	~	•	日本語			サプライヤー
シート(Preliminary MDS)		:::	한국어			サプライヤー
日付	□公開/承認/社 □作成日		中文	J		0202-4-
	2022/10/30	126	~ 2022	2/11/30	3	コンタクトパー
規制情報リクエスト		依頼	を受信済み			obsolete (IE
	2022/10/30	12	~ 2022	2/11/30	8	

To be continued on the next page

#### 4-11 On submission of MDS Reports

JDI Specific Requirements

(2) Select [Create MDS Report]  $\Rightarrow$  [Full Report] Both a) and b) as follows are available.

a) Select [Component Search] to right-click to select.

Name, ID, Version, Date Description Part/Item No. ID 1178416877 Preliminary MDS Date published / a Created from 10/30/2022 Regulation Request Received req from 10/30/2022 SCIP Submission	Current verse accepted / internally relevent to 11/30/202 usest for regulation update to 11/30/202	sions V eased Edit View Copy Forward Delete	Supplier MC accepted Enable se Supplier Supplier Supplier se last edite Assigned Orn Assigned Co	DSs, Own MDSs/Mod	Save Save Save as Release Internal Convert module to Forward Create MDS Report Create MDS Report Reject Reject Submit MDS to SCI Log off Log off Log off	AIC+SNITC+S MDS t • •	✓ Q	Show regulatory in	formation	
View - BMenu Export T Type Description PRODUCT	<b>here are hidden colu</b> Part/Item No. A12345678	Create MDS Report  Check  Copy to clipboard  Convert module to MDS  Submit MDS to SCIP	Header Only Report Full Report Ing "View" button. Supplier Japan Display Inc.	Received reg.						

b) Select from [MDS] with the data sheet open.

To be continued on the next page



#### 4-11 On submission of MDS Reports

JDI Specific Requirements

(3) Select [Japan Display Inc.] to create a report on JDI perspective.

MDS - MATERIAL DATA SYSTEM	MDS - MATERIAL DATA SYSTEM
Please select a company view for the generated MDS Report Point of view サプライヤー様名 ↓ サプライヤー様名 Japan Display Inc.	Please select a company view for the generated MD5 Report Point of view Japan Display Inc. In the recipient's point of view, section 2 ("Characterization of the component") still shows the creator's (your) view of the decomposition. Therefore you might see confidential substances that the recipient cannot see.
V OK 🎧 Cancel	Cancel

#### 4-12 How to transfer data

When the data sheet received from the supplier is submitted to us as is, transfer it as follows.

1) Select [MDS] $\Rightarrow$ [Forward].	(2) Select [OK].
MDS Functions Administration Help   New Supplier Data Recipient data Analysis   Save Alt+Shift+S C Show regulatory information   Save as Convert module to MDS mation   Convert module to MDS Forward pent (received MDS)   Create MDS Report Forwarded MDS 2191 / 1   Create MDS Report Forwarded MDS 2191 / 1   Check Original MDS Units   Accept MDS Supplier Supplier A	MDS - MATERIAL DATA SYSTEM  Information  A forwarded version of this MDS will be created.  The "Ingredients" cannot be modified except for the SCIP fields. The forwarded version can only be released internally or proposed.  I w ok cancel  The data sheet is created with a new ID.
Reject     Description     Tape       Delete     Part/Item No.     A13141516       Submit MDS to SCIP     eliminary MDS     No	Details Common Information Type, Component (own MDS)
U Log off	ID / Version 1223489907 / 0.01 Node ID 1223489907
	MDS Supplier       Supplier_A         Description       Tape         Part/Item No.       A13141516         Preliminary MDS       No         Multi Sourced       No

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#### 4-12 How to transfer data

#### (3) Input into the [Supplier Information] sheet.



#### (4) Input into the [Destination Information] sheet.



To be continued on the next page

#### 4-12 How to transfer data

(5) After entering company ID "103885", click [Search]. Select the company name displayed to click [Apply].

MDS - MATERIAL DATA SYSTEM						
Company						
Company Name		Zip Code				
Company ID 103885		City			Only root companies	
Org Unit		Country		$\sim$		
DUNS Number						
						Q Search
View 🔻 📑 Menu 📓 Export						
Company Name	Org Unit	ID	Zip Code	City	Country	
Japan Display Inc.	Japan Display Inc.	103885	105-0003	Minato-ku, Tokyo	Japan	
						Menu Total records found 1
					٢	View 🖌 Apply 🎧 Cancel

To be continued on the next page

#### 4-12 How to transfer data

(6) Input the following items to select [Send All].\* [Transmission] is unavailable for transferring.



## JDI Japan Display Inc.

## 5 Warning in IMDS

- 5-1 Confirming errors and warnings
- 5-2 Corrective actions

#### 5-1 Confirming errors and warnings

When the Error/Warning is displayed after the Error Checking of IMDS is carried out, confirm the error detail and report it after correction.

#### [How to check Error/Warning in IMDS]

MDS → Functions → Administration → Help → MDS/Module Search Ingredients Supplier Data Filter GADSL ♥ ♥ Show regulat ♥ EP ▲ ↓ 100.0% EP	Recipic tory infor ails
	Type Basic Substance Name(s) EP Basic Polymer: EP Epoxide
Check results - 2 Error(s) /4 Warning(s)       No.     Type       1     A	Message A polymer material (classification 5.4.3 ) should have at least two substances attached
2 A Ingredie	A material of classification 5.4.3 must contain at least 15% substances of the group "Chk: Named *poly* w/o polymers".
3 🛕 Ingredients 🔩 EP	The material contains at least 50% substances of the group "Basic polymers", but has an inappropriate classification 5.4.3. Appropriate classifications are: 5.1.a, 5.1.b, 5.2, 5.4.1, 5.5.1, 5.5.2, 6.1, 6.2, 6.3, 7.3, 8.1, 8.2, 9.2
4 Error	Contact must be specified

#### [How to check warning details]

Confirm warning details on the following URLs.

Japanese https://public.mdsystem.com/ja/web/imds-public-pages/faq

English <a href="https://public.mdsystem.com/en/web/imds-public-pages/faq">https://public.mdsystem.com/en/web/imds-public-pages/faq</a>

Chinese <u>https://public.mdsystem.com/zh/web/imds-public-pages/faq</u>

![](_page_40_Picture_6.jpeg)

#### **5-2 Corrective actions**

#### We are not allowed to correct received data in MDS.

- All errors shall be corrected.
- Please confirm and correct what the warning indicates according to the details in the following pages. We do not necessarily ask you to correct all warnings but may ask you correction according to a customer's request or other cases.

(Even if we have once approved the warning, please do it likewise the above.)

![](_page_41_Picture_8.jpeg)

![](_page_42_Picture_1.jpeg)

#### (1) When a part and a material are on the same layer under a part

[Checking in IMDS: On placing different types of items on the same level
 When a part and a material are placed under the identical main parts in the IMDS, a warning is displayed.

#### [How to deal with warnings]

- Insertion of a dummy part such as the right bottom diagram avoids a warning.
- \* Names for "dummy parts" are optional but using a material name is recommended.

![](_page_42_Figure_7.jpeg)

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#### (2) When the maximum deviation of part mass exceeds the reference value of IMDS

[Checking in IMDS: The maximum deviation based on the Parts Mass]

Refer to (IMDS User's Manual 3.3.17 Check Procedure)

IMDS checks the maximum deviation of subparts based on the mass value of main parts.
 \* The Error Checking is carried out for all layers of the parts structure.

• Any values shall fall within the reference value range to avoid warnings. (Because the mass value cannot fall within the tolerance when we report products data to customers.)

![](_page_43_Figure_6.jpeg)

![](_page_44_Picture_1.jpeg)

#### (3) When the content rate range of compound exceeds the reference value of IMDS

[Rule in IMDS: The maximum deviation based on the Parts Mass]

Refer to (IMDS Recommendation 001 4.5.4 Portion (Percentage) Ranges,

IMDS User's Manual 3.3.17 Check Procedure)

- The tolerance (minimum value maximum value) in the content rate of compound is provided in the following. Report the
  content rate so that it falls within the tolerance range.
  - \* If a material is defined based on official standards, it is accepted that the content rate may exceed the tolerance range.

[Range value of the content rate]	

Content rate of compound Maximum = Y% Minimum = X%	Tolerance range M = Y% - X%
$0 \leq X \leq 7.5$	M ≤ 3
$7.5 < X \le 20$	M ≤ 5
$20 < X \leq 100$	M ≤ 10

#### [Note] Report in the status without this warning!

#### (4) When a component of resin and rubber material is a single compound to give a 100% content rate

[Checking in IMDS: When a Material Data Sheet in which the material is classified in 5.x or 6.x, and composed of 100% of a single chemical is newly created Created] Refer to (IMDS User's Manual 3.3.17 Check Procedure)

 For a material with material classification, "5.x or 6.x", when the content rate of one substance is 100%, warming is displayed.

(Confirm other additives and add them to the data to prevent omission of additives for resins and rubbers.)

![](_page_45_Figure_5.jpeg)

#### [Note] Report in the status without this warning!

#### (5) Chromate, water in passive state

[Checking in IMDS: When a material includes more than 1% of liquid or gaseous chemical substance and its material classification is not "9.x", or includes more than 1% of a specified chemical substance]

Refer to (IMDS User's Manual 3.3.17 Check Procedure)

• If the state with water in chromate is right, even if the warning is displayed, report as it is.

The report will not be refused basically even if water is included.

#### [For your reference]

• The chromate (black) with water included is registered among IMDS Committee-Approved Materials data.

#### [IMDS published MDS IMDS ID (Material): 73281512 / 4]

MDS/Module Search Ingredients	Supplier Data	Recipi	ent data 🛛 🗛 Ar	nalysis MDS Request	
😥 📁 Filter GADSL	🗸 🗸 🗹 s	how regulate	ry information		
🗸 🔩 Chromate film black	D	etails			
Rest 10.5% Chromium(III)oxide	5	Common	Information		
4.5 - 6.5% Chromium(III)-hydroxide					
📣 9.0 - 11.0% Water 🛛 Including wa	ater.		Туре	Material (published MDS)	
50.0 - 56.0% Dichromium tris(hydrogen phos	phate)		ID / Version	73281512 / 4	
📣 18.0 - 22.0% Zinc-hydroxide 📂			Node ID	1119451185	
0.0 - 2.0% Misc., not to declare     1	IMDS Committe	ee-	Node count	7	
	Approved Mate	erial is	MDS Supplier	IMDS-Committee / ILI Metals	
	indicated.		Name	Chromate film black	

#### (6) Material classification

[Checking in IMDS: When a material includes more than a specified content rate of a specified chemical substance]

Refer to (IMDS User's Manual 3.3.17 Check Procedure)

- When the warning is displayed by the IMDS Error Checking, confirm the correction candidate indicated on the message field to select the appropriate material classification.
- \* Even though the warning is displayed, the material classification may be correct (the appropriate option may not be displayed).

![](_page_47_Figure_6.jpeg)

JD

## JDI Japan Display Inc.

6

## Points for preparing Substance Research Data

- 6-1 Always report substances listed on GADSL
- 6-2 Report substances as in final products
- 6-3 Report in line with the latest design change and material change
- 6-4 Pass Substance Research Data across the supply chain
- 6-5 Report every homogeneous material separately
- 6-6 Report indications with or without Material Properties Indication
- 6-7 Report Parts Masses correctly
- 6-8 How to input glass components
- 6-9 Input a material name in the name field of the Material Data

#### 6-1 Always report substances listed on GADSL

When a substance includes a substance listed on GADSL exceeding the threshold value, entry is mandatory. For highlyconfidential substances and confidential substances, the content rate is allowed up to 10%.

Refer to (IMDS Recommendation 001 Rule 3.2.1.D, Rule 4.5.2.C, Rule 4.5.3)

#### [Points to particularly pay attention to]

#### (1) When data is created (creating new, updating)

(I) Substances listed on GADSL

• When a substance exceeds the prescribed threshold value, always report that.

• Using a wild card (Highly Confidential Substance, Misc., not to declare and others) for non-disclosure is unavailable. (II) Wild card (non-disclosure)

- When a wild card is used, comply with "IMDS Recommendation 001 Rule 4.5.3".
- \* Note that the content rate combining a Highly Confidential Substance with a Confidential Substance shall not exceed 10% in IMDS.

#### (2) When the data update is necessary (when GADSL is revised)

• When your substance has been listed on GADSL after using a wild card, promptly let us know it.

#### [How to check the up-to-date GADSL]

Confirm the list on the link below.

#### http://www.gadsl.org/

Downloading the files, "Contact Information", "Reference List" and "GADSL Guidance Document", is available.

![](_page_50_Picture_5.jpeg)

Open the excel file of [Reference List] downloaded to confirm the GADSL classification as follows.

(2) Click [2].	F	G	н								
6243 6244 6244 6245 6246 6246 6246 6246 6246	ead in classifications to	identify re	gulatory status,	Ţ							
There has been some confusion in the user community ov <sup>6247</sup> <sup>6248</sup> <sup>6249</sup> When a substance is classified D three reason codes are	over the use of the	(3) TI	ne Reference	D	E Classificatio	F	G Source	H Effective date (Lega	I I requirements, regulations)	J Generic examples	K Reporting threshold
6250D/LR: reporting is required by a regulation;6251D/FA: it is being assessed by a regulatory agency for poss6252D/FI: information is being collected for a non-regulatory pu	ssible but not nec	List is	s displayed.	5-07-0 9-16-3 75-05-8 70.06.4	D D D	FI	(4) Confir	m th	e GAD	SL from polymer components rs, used in automobile parts ph-capacity capacitors	(0.1% unless otherwise stated)
In the later two cases the substance may be removed from as is the case with several substances that were evaluated	om the list after th ed under the Car	5 4 6 5 7 6 7	Acrylonitrile     Akyl (C7-C9), 3-(3-(2H-benzotriazol-2-yi)-5-(1,1-dimethylethyl)-4-     hydroxyphenyl]propionates, mixture of branched and linear     Altyd Bhanol derivatives, selected	107-13-1 127519-17-9	D	F.		tion.		crysmoe (resoual monomer) ton of plastics, eo_ABS (residual monomer) r in all clear laquers	0.3% per CLP regulation 1712/2008 (EC) table 3.7.2
it was determined that no action or restriction on use was in the environment.	s necessary to pr	8	Amines, coco alkyl	61788-46-3	D	FI	Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP2) (2016- 2020) Legally regulated according to German TRGS 615. Lint for all secondary Amines in voltatile corrosion inhibitors.			polyurethane foams, corrosion inhibitors, lubricants,	These substance use are prohibited for additives of mixture sold independently (for example: anti-oxide additive of lubricant)
cick on the "2" button at the top of the left margin to display the list, thank you.       6280       6281       6282       12/34       A       B       C			Amines, which can form carcinogenic nitrosamines, selected     4-Aminobiphenyl and its salts, all members     Ammonium Nitrate (AN)	6484-52-2	P D	FI LR FI	which can form carcinogenic Nitrosamines. Volatile .corrosion inbibitoria isclute acadeslastic firms and oils .(EC) No 1272/2008, carcinogen class 2 			rubber, colourants, herbicides Impurties in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics Substance is present in certain pyrotechnical devices	0.01%
6263 6264 6265 6266 6267 6268		31 12 32 33 13 44	Ammonium perchlorate Aniline and its salts, all members J. 0.40.htmacenedione, 1-{{5,7.dichloro-1.9-dihydro-2-methyl-9-	7790-98-9	D	FA FI	Initis A Longent Units Jack State State State Dir. 2007/23CC. Colfornia Assembly Bill No. 826 - Perchiorate Contamination Prevention Act, implemented July 1, 2006. http://www.dtsc.ca.ou/Hazardous/Vaste/Perchiorate Reg. (EC) No. 1272/2008			Pyrotechnical compound Pioments, sulfonamides, isocyanate - plastics	0.1%. Report any intentionally added content.
List] sheet.		41 14 42 15 1 43 16 1	oxopyrazolo[5,1-b]quinazolin-3-yi]azo]- (Pigment Red 251) Antimonytrioxide (Diantimonytrioxide) Aromatic amines, selected	1309-64-4	D D/P	FI	Reg. (EC) No 12/2/2008 Reg. (EC) No 1272/2008 Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH) Reg. (EC) No 1907/2006 (REACH) Reg. (EC) No 1272/2009	selected, see list	REACH Authorisation Sunset	Fiame retardant synergist for plastics and rubber/latex. opacifier. friction material component. Impurfies in textile and leather paints, antioxidants in lubricants, rubber/latex, plastics Paints, smetted materials, blocides (including wood	No testing required.
6278 6277 6277 6278 Start Page CAS RN Search Form Reference List	•	57 18 1 221 228 19 1	Asbestos fibers, all members     Asbestos minerais, all members		P D/P	FA/LR LR FI/LR	Heg. (EC) No 552/2009           Reg. (EC) No 552/2009           Reg. (EC) No 552/2009           Definition of assects rolifer for counting purpose by           OSHA in 1992; Particle with a length >5 µm, a diameter           of same ad assect rolifer for counting purpose by           Definition of ad assect rolifer for counting purpose by           OSHA in 1992; Particle with a length >5 µm, a diameter           of same ad assect rolifer for the state of the	below	Date	rearment, leather and textile trashes, glasses, pvrotechnic objects. metal finishes, electronics Friction pads, gaskets, insulations Friction pads, gaskets, insulations	then the declaration limit is 0.05%). Any intentionally added content Any intentionally added content
	•	20 2 235	Azodyes that can form carcinogenic amines, selected Page CAS RN Search Form Reference List D	eletions (+)	D/P	LR	(REACH), TROS 614 (REACH), TROS 614 A list of affected azo dyes has been prepared by an industrial association (TEGEVA), see List A in http://www.tegewa.de/uploads/imedia/2001_Azofarbstoff e.nemaess_TRGS_614.odf			In dyes for textiles and leather articles	: 1

#### 6-2 Report substances as in final products

Enter the substance finally included in the product.

Refer to (IMDS Recommendation 001 Rule 4.4.1.B, Rule 4.4.1.C)

#### [Points to particularly pay attention to]

(1) As for resins, report the product state (component) delivered to us instead of raw materials used for manufacturing resins.

(2) As for coating materials and adhesives, report the state after curing, excluding substances (process chemicals) to be volatilized or removed in manufacturing processes.

(3) As for polarizers and tapes etc., report the state excluding protective film, marking ink and separator.

![](_page_52_Figure_8.jpeg)

#### 6 Points for preparing Substance Research Data

#### For your reference: Options for resins (Basic Substance)

- Report the final product state delivered to us instead of raw materials.
- As for resins, since the options (Basic Substance) are available below, use them for confirmation to material manufacturers or other objectives.
- The list below describes one of examples of compounds for resins. Many options such as other resins and polymer alloys (resins with several resins mixed) that are not defined in JIS are registered to use.

Material Name (Japanese)	Material Code (JISK6899-1)	Options in IMDS (Compound Name)	Material Name (Japanese)	Material Code (JISK6899-1)	Options in IMDS (Compound Name)
Acrylonitrilebutadiene-acrylic ester plastic	ABAK	Basic Polymer: ABAK	Methyl methacrylate-butadiene-styrene plastic	MBS	Basic Polymer: MBS
Acrylonitrile-butadiene-styrene plastic	ABS	Basic polymer: ABS	Methyl cellulose	MC	Basic Polymer: MC
Acrylonitrile-chlorinated polyethylene-styrene	ACS	Basic Polymer: ACS	Melamine-formaldehyde resin	MF	Basic Polymer: MF
Acrylonitrile-(ethylene-propylene-diene)-styrene plastic	AEPDS	Basic Polymer: AEPDS	Melamine-phenolic resin	MP	Basic Polymer: MP
Acrylonitrile-methyl methacrylate plastic	AMMA	Basic Polymer: AMMA	α-Methyl styrene-acrylonitrile plastic	MSAN	Basic Polymer: MSAN
Acrylonitrile-styrene-acrylic ester plastic	ASA	Basic Polymer: ASA	Polyamide	PA	Basic Polymer: PA
Cellulose acetate	CA	Basic Polymer: CA	Polyaryl ether ketone	PAEK	Basic Polymer: PAEK
Cellulose acetate butyrate	CAB	Basic Polymer: CAB	Polyamide imide	PAI	Basic Polymer: PAI
Cellulose acetate propionate	CAP	Basic polymer: CAP	Polyacrylate	PAK	Basic Polymer: PAK
Cellulose formaldehyde	CEF	Basic Polymer: CEF	Polyacrylonitrile	PAN	Basic Polymer: PAN
Cresol formaldehyderesin	CF	Basic Polymer: CF	Polyacrylate	PAR	Basic Polymer: PAR
Carboxy methyl cellulose	CMC	Basic Polymer: CMC	Polyaryl amide	PARA	Basic Polymer: PARA
Cellulose nitrate	CN	Basic Polymer: CN	Polybutene	PB	Basic Polymer: PB
Cycloolefin copolymer	COC	Basic polymer: COC	Polybutyl acrylate	PBAK	Basic Polymer: PBAK
Cellulose propionate	CP	Basic polymer: CP	1,2-Polybutadiene	PBD	Basic Polymer: PBD
Cellulose triacetate	CTA	Basic Polymer: CTA	Polybutylene terephthalate	PBT	Basic Polymer: PBT
Ethylene-acrylic acidplastic	EAA	Basic Polymer: EAA	Polycarbonate	PC	Basic Polymer: PC
Ethylene-butyl acrylate plastic	EBAK	Basic Polymer : EBAK	Polycyclohexylenedimethylene-terephthalate	PCT	Basic Polymer: PCT
Ethyl cellulose	EC	Basic Polymer: EC	Polychlorotrifluoroethylene	PCTFE	Basic Polymer: PCTFE
Ethylene-ethyl acrylate plastic	EEAK	Basic Polymer: EEAK	Polydiallylphthalate	PDAP	Basic Polymer: PDAP
Ethylene-methacrylic acid plastic	EMA	Basic Polymer: EMA	Polydicyclopentadiene	PDCPD	Basic Duromer: PDCPD
Epoxide, epoxy resin or epoxy plastic	EP	Basic Polymer: EP	Polyethylene	PE	Basic Polymer: PE
Ethylene-propylene plastic	E/P	Basic Polymer: E/P	Polyethylene, chlorinated	PE-C	Basic polymer: PE-C
Ethylene-tetrafluoroethyleneplastic	ETFE	Basic Polymer: ETFE	Polyethylene, high density	PE-HD	Basic Polymer: PE-HD

To be continued on the next page

#### 6 Points for preparing Substance Research Data

Following the	Material Name (Japanese)	Material Code (JISK6899-1)	Option in IMDS (Compound Name)	Material Name (Japanese)	Material Code (JISK6899-1)	Option in IMDS (Compound Name)
previous page	Ethylene-vinyl acetate plastic	EVAC	Basic Polymer: EVAC	Polyethylene, low density	PE-LD	Basic polymer: PE- LD
	Ethylene-vinyl alcohol plastic	EVOH	Basic Polymer: EVOH	Polyethylene, linear low density	PE-LLD	Basic polymer: PE-LLD
	Perfluoro (ethylene-propylene) plastic	FEP	Basic Polymer: FEP	Polyethylene, medium density	PE-MD	Basic polymer: PE-MD
	Furan-formaldehyde resin	FF	Basic Polymer: FF	Polyethylene, ultrahigh molecular weight	PE-UHMW	Basic polymer: PE-UHMW
	Liquid crystal polymer	LCP	Basic Polymer: LCP	Polyester carbonate	PEC	Basic Polymer: PEC
	Methyl methacrylate-acrylonitrile-butadiene-styrene plastic	MABS	Basic Polymer: MMABS	Polyether ether ketone	PEEK	Basic Polymer: PEEK
	Polyether ester	PEEST	Basic Polymer: PEEST	Polysulfone	PSU	Basic Polymer: PSU
	Polyether imide	PEI	Basic Polymer: PEI	Polytetrafluoro ethylene	PTFE	Basic polymer: PTFE
	Polyether ketone	PEK	Basic Polymer: PEK	Polytrimethylene terephthalate	PTT	Basic Polymer: PTT
	Polyethylene naphthalate	PEN	Basic polymer: PEN	Polyurethane	PUR	Basic Polymer: PUR
	Polyethylene oxide	PEOX	Basic Polymer: PEOX	Polyvinyl acetate	PVAC	Basic Polymer: PVAC
	Polyester urethane	PESTUR	Basic Polymer: PESTUR	Polyvinyl alcohol	PVAL	basic Polymer: PVAL
	Polyether sulfone	PESU	Basic Polymer: PES	Polyvinyl butyral	PVB	Basic Polymer: PVB
	Polyethylene terephthalate	PET	Basic Polymer: PET	Polyvinyl chloride	PVC	Basic Polymer: PVC
	Polyether urethane	PEUR	Basic Polymer: PEUR	Polyvinyl chloride, chlorinated	PVC-C	Basic Polymer: PVC-C
	Phenol-formaldehyde resin	PF	Phenol-formaldehyde Resin	Polyvinylidene chloride	PVDC	Basic Polymer: PVDC
-	Perfluoro alkoxyalkane resin	PFA	Basic Polymer: PFA	Polyvinylidene fluoride	PVDF	Basic Polymer: PVDF
	Polyimide	PI	Polyimide	Polyvinyl fluoride	PVF	Basic Polymer: PVF
	Polyisobutylene	PIB	Basic Polymer: PIB	Polyvinyl formal	PVFM	Basic Polymer: PVFM
	Polyisocyanurate	PIR	Basic Polymer: PIR	Poly-N-vinylcarbazole	PVK	Basic Polymer: PVK
	Polyketone	PK	Basic Polymer: PK	Poly-N-vinylpyrrolidone	PVP	Basic Polymer: PVP
	Polymethacryl imide	PMI	Basic Polymer: PMI	Styrene-acrylonitrile plastic	SAN	Basic Polymer: SAN
	Polymethylmethacrylate	PMMA	Basic Polymer: PMMA	Styrene-butadiene plastic	SB	Styrene-butadiene rubber
	Poly(N-methylmethacrylimide)	PMMI	Basic Polymer: PMMI	Silicone plastic	SI	Silicone resin
	Poly(4-methylpenta-1-ene)	PMP	Basic Polymer: PMP	Styrene-maleic anhydride plastic	SMAH	Basic Polymer: SMAH
	Poly(α-methyl styrene)	PMS	Basic Polymer: PMS	Styrene-α-methyl styrene plastic	SMS	Basic Polymer: SMS
	Polyoxymethylene, polyacetal, polyformaldehyde	POM	Basic Polymer: POM	Urea-formaldehyde resin	UF	Basic Polymer: UF
	Polypropylene	PP	Basic Polymer: PP	Unsaturated polyester	UP	Basic Duromer: unsaturated polyester resin
	Polyprolylene, foamed	PP-E	Basic Polymer: PP-E	Vinyl chloride-ethylene plastic	VCE	Basic Polymer: VCE
	Polyphenylene ether	PPE	Basic Polymer: PPE	Vinyl chloride-ethylene-methyl acrylate plastic	VCEMAK	Basic Polymer: VCEMAK
	Polypropylene oxide	PPOX	Basic Polymer: PPOX	Vinyl chloride-ethylene-vinyl acetate plastic	VCEVAC	Basic Polymer: VCEVAC
	Polyphenylene sulfide	PPS	Basic Polymer: PPS	Vinyl chloride-methyl acrylate plastic	VCMAK	Basic Polymer: VCMAK
	Polyphenylene sulfone	PPSU	Basic Polymer: PPSU	Vinyl chloride-methyl methacrylate plastic	VCMMA	Basic Polymer: VCMMA
	Polystyrene	PS	Basic Polymer: PS	Vinyl chloride-Octyl acrylate plastic	VCOAK	Basic Polymer: VCOAK
	Polystyrene, foamed	PS-E	Basic Polymer: PS-E	Vinyl chloride-vinyl acetate plastic	VCVAC	Basic Polymer: VCVAC
	Polystyrene, impact-resistant	PS-HI	PS-HI (HIPS)	Vinyl chloride-vinylidene chloride plastic	VCVDC	Basic Polymer: VCVDC

#### For your reference: How to input epoxy resins

- [Rule] Description in cured state is needed for resins used for adhesives and sealants.
  - When a chemical substance under the cured state to declare is included in the product, declaration (reporting) of the substance is necessary.
     Refer to (IMDS Recommendation 001a)

[Recommendation]

 It is recommended to use basic substances such as Basic Duromer: Epoxy resin (without CAS No.) for cured epoxy resins other than chemical substances to declare.
 Refer to (IMDS Recommendation 012)

#### [Points on input]

- When both uncured resins and hardeners are input, input\* both for basic substances together.
- Unless hardeners are coexistent with uncured resins, input\* uncured resins as basic substances.
  - If cured epoxy resins are also entered in the data received from suppliers, uncured resins and hardeners may be unreacted. Always ensure that suppliers state whether unreacted substances remain or not and their content rates. If the unreacted substance remains, correction is unnecessary.
- When an unreacted resin is a brominated substance, select Basic Duromer: Brominated epoxy resin for a basic substance. (Refer to the next page. Select the most appropriate basic substance.)

![](_page_55_Figure_11.jpeg)

#### 6 Points for preparing Substance Research Data

How to deal with states before and after the curing in the diagrams below. While an unreacted epoxy resin may be cured itself, a substance with the two epoxy groups (functional group with oxygen included) in one molecular cannot cure itself as below, resulting in the state without geometrically cross-linked\* structure to be uncured.

\* Even if this uncured resin may be solidified itself because of a large molecular weight, the product is thermoplastic (linear aggregate) but unable to cure (form a network structure).

![](_page_56_Figure_3.jpeg)

#### [Reaction intermediates of epoxy resins and urethan resins]

One of examples of reaction intermediates of epoxy resins and urethan resins are shown in Table A and B below. Report those substances by using basic substances and other measures after confirming states of final products.

#### <Table A> Reaction intermediates of epoxy resins

CAS No.	Chemical Name	CAS
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane	9009
58421-55-9	Phenol, methylenebis-, polymer with (chloromethyl)oxirane (9Cl)	9016 6840
25928-94-3	Diethylene-glycol,-polymer-with-1-chloro-2,3-epoxypropane	10132
40039-93-8	Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-, polymer with (chl	28253 17192
25085-99-8	Oxirane, 2,2'-((1-methylethylidene)bis(4,1-phenyleneoxymethylene))bi	21669
25036-25-3	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-((1-methylethylidene)bis(4,1- phenyleneoxymethylene))bis(oxirane)	10383
29690-82-2	Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	9057
28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	6808 6809

#### <Table B> Reaction intermediates of urethan resins

CAS No.	Chemical Name				
9009-54-5	Polyurethane				
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues				
68400-67-9	1,3-Butanediol, polymer with alpha-butyl-omega-hydroxypoly (oxy(methyl-1,2-ethanediyl)) and 1,3- diisocyanatomethylbenzene				
101325-00-2	Carbonic acid, dimethyl ester, polymer with 1,6-hexanediol				
282534-15-0	Dimethyl carbonate polymer with 1,6-hexanediol and 2-oxepanone				
171926-76-4	Polycarbonatediol (PCD)				
216691-97-3	Carbonic acid, dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,6-hexanediol				
103837-45-2	1,2-Propanediol, polymer with 1,1'-methylenebis[isocyanatobenzene], methyloxirane and oxirane				
113066-13-0	Urethane acrylate prepolymer				
9057-91-4	Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, polymer with 1,3- diisocyanatomethylbenzene				
68083-75-0	1,2-Propanediol, polymer with 1,1'-methylenebis(4-isocyanatobenzene), 2-methyloxirane and oxirane				
68092-58-0	Propanol, ((1-methyl-1,2-ethanediyl)bis(oxy))bis-, polymer with 1,1'				

Those CAS No.s are removed after reactions. Select appropriate substances that resins include after chemical reactions. For example, select "Without CAS No. Epoxy resin", "Without CAS No. Polyurethane resin or PUR" or others.

#### 6-3 Report in line with the latest design change and material change

When a new material is added or a material already reported is removed from a part, revise the corresponding data sheet and send it. Refer to (IMDS Recommendation 001 Rule 3.2.1.B)

#### [Points to particularly pay attention to]

• If Substance Research Data are changed due to the design change and changing and addling of materials or other reasons, re-submission is necessary.

Example of change: Coating layer one layer  $\Rightarrow$  change to coating layer two layers Example of change: Product with lead included  $\Rightarrow$  change to lead-free product

#### 6-4 Pass Substance Research Data across the supply chain

Pass Material Data across the supply chain (Tier n  $\Rightarrow$  Tier n-1  $\Rightarrow$   $\cdots$  Automobile manufacturers) The Material data Sheet shall be created by material-producing companies only.

Refer to (IMDS Recommendation 001 Rule 3.1.A, Rule 4.4.1.E)

#### [Points to particularly pay attention to]

- Material manufacturers are advised to input material component information.
- Parts manufacturers are advised to use Material Data received from material manufacturers to create parts data.

#### 6-5 Report per homogeneous material separately

Enter separately per homogeneous material.

Refer to (IMDS Recommendation 001 Rue 4.4.1.D, 001a 1.1 Select the material classification in IMDS)

<Correct>

#### [Points to particularly pay attention to]

 "Homogeneity" of a homogeneous material means a homogeneous material composition that can never be simply separated into several materials.

Make sure that the material is described as the homogeneous material.

![](_page_59_Figure_7.jpeg)

#### 6-6 Report indications with or without Material Properties Indication

A case corresponding to the following conditions requires a response with Material Properties Indication. Reference value: "Material Classification 5.1.x or 5.4.x" and "Exceeding 100g", "Material Classification 5.2 or 5.3" and "Exceeding 200g" Refer to (IMDS User's Manual 3.3.11 Polymeric Parts Marking)

#### [Points to particularly pay attention to]

- Since "N (No)" means that the Material Properties Indication is not provided even through the material indication is necessary, avoid making "N (No)" response, because that is unusual.
  - \*When the mass is not more than the reference value and the Material Properties Indication is not provided, make a "N/A (not applicable)" response.
- The response for Material Properties Indication is necessary if component parts in ASSY items purchased meet conditions of material classification and masses.

#### 6-7 Report Parts Masses correctly

Correct masses (Parts Masses) need to be specified.

Refer to (IMDS Recommendation 001 Rule 4.2.2.A)

#### [Points to particularly pay attention to]

• Referring to confirming masses in the drawings and the actual measurement, report correct masses.

#### 6-8 How to input glass components

[Recommendation]

- Regarding newly-created data sheets for glass, silicate ceramics and enamels, description of simple materials including a single (basic) chemical substance is necessary. If it is unable to change the data, the existing data is continuously available.
- A material with a chemical substance to declare included need to be additionally specified according to the general rule of the "IMDS Recommendation 001".

Refer to (IMDS Recommendation 001a 2.6 MDS creation for glass, silicate ceramic and enamel)

#### [Points on input]

- When new data is created, use UVCB\* only.
- \* UVCB : Substances of Unknown or Variable composition, Complex reaction products or Biological materials (Substances of Unknown or Variable composition, Complex reaction products or Biological materials)

![](_page_61_Figure_9.jpeg)

#### 6-9 Input a material name in the name field of the Material Data

 Input a material name in the name field of the Material Data Sheet. Refer to (IMDS Recommendation 001 Rule 4.4.2 Information Given in Material MDSs)
 Avoid using a commercial name for the material name.
 Refer to (IMDS Recommendation 001 Rule 4.4.2.B)

#### [Points to particularly pay attention to]

- When a name is provided by official material standards (such as JIS and ISO), always enter the official name. If the name above is unable to use, input as follows.
  - (1) The material can be specified and the specified name can be provided
    - (Example : Carbon steel, Stainless steel, etc.)
  - (2) Material Marks and Codes registered on the JAPIA sheets
    - (Example : such as FE, AL, SINTERFE, ABS, PC)

![](_page_62_Picture_9.jpeg)

# 

#### 6-9 Input a material name in the name field of the Material Data

When the material name is input below, it is insufficient. Input the right name. (Our customers may reject it)

Insufficient case	Main cases	Example of insufficient input (underlined in red)
The name other than the material is input.	The name of component parts is input.	FINISHING
		CENTER TAPE
	The commercial name is input.	▶ 💁 <u>XYZ-001</u>
Though the material name is input, the other name is also input.	The name of component parts is input.	SHEET PC
		EP_RIGHT SIDE
	The commercial name is input.	INK ABC-002

To be continued on the next page

#### 6-9 Input a material name in the name field of the Material Data

How to enter a location where a material is used (Component Parts Information) is indicated below. For differentiating the identical materials in the component, this measure can be used.

![](_page_64_Figure_3.jpeg)

# 6-10 Report as material or semi-component for MDS Type, as for components whose delivered unit and JDI usage unit are different

As for components such as color filters that are delivered in large plates and separated into individual parts at JDI, report as material or semi-component for MDS Type as per unit area/volume/length.

Refer to (IMDS User's Manual 3.3.1 MDS Types)

#### 3.3 Materials and Component MDSs

3.3.1 MDS Types

The following table describes and helps differentiate Components, Semi-Components and Materials:

MDS Type	Description	Can be attached to	Can have child nodes	Has weight field
Material	Represents a homogeneous structure – if a slice were taken through the item, there would be no layers or visible differentiation (exception for electronic components).	Materials, Semi- Components, Components	Material, Substance	No
Semi- Component	Semi- Component Similar to a material, this represents a structure that will require further processing before it is assembled and given a final weight. Examples are a steel blank or a coated wire. Usage is by length, by volume, or by area.		Semi-Component, Material	No
Component	Used to represent an assembly or component with a defined weight and used in whole number quantities. Examples include a bolt, an engine block, a seat, etc. The weight of a Component MDS is defined at creation and cannot be reduced in the structure.	Components	Component, Semi- Component, Material	Yes

Quoted from (IMDS User's Manual 3.3.1 MDS Types)

![](_page_66_Picture_0.jpeg)

## 7 Contacts

Please access the contact point for inquiries as follows regarding IMDS such as How to operate the system/Registration/How to input/How to create data/Training/Manual/Rules/How to carry out settings.

[IMDS Service Center]

- Japan
- E-mail: jpimds-helpdesk@dxc.com
- TEL: 03-4530-9270
- Other countries than Japan
- Refer to the link in the following.
- https://public.mdsystem.com/ja/web/imds-public-pages/imds-service-centers

For inquiries in regard to JDI Specific Requirements, contact the following point. Japan Display Inc. Product Environment Department Green Procurement Help Desk E-mail: green.proc.zz@j-display.com

Ver.	Date of revision	Key revision points
1.00	Feb. 9, 2023	Newly created
1.01	Sep. 13, 2023	Revised "4-6 Application Code" and "4-8 Recyclate Information." Newly created "6-10 Report as material or semi-component for MDS Type, as for components whose delivered unit and JDI usage unit are different."

![](_page_69_Picture_0.jpeg)

# PersonalTech For A Better World