

JAPIA Standard Material Datasheet Overview

Purpose

This is the explanatory document for JAPIA Standard Material Datasheet (hereinafter JAPIA Sheet). The latest version of JAPIA Sheet and related documents can be downloaded from the sites shown below.

JAPIA Web Site (<https://www.japia.or.jp/>)

CEMA Web Site (<http://www.cema.or.jp/>)

JIVA Web Site (<http://www.jiva.or.jp/>)

Apr. 1, 2021

JAPIA Sheet Liaison Group

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I . Essential Information

The essential information of JAPIA Sheet is explained here.

1. About JAPIA Sheet

JAPIA Sheet is a form agreed in the JAPIA Sheet Liaison Group (See next page) including the Japan Automobile Parts Manufacturers Association (JAPIA) for the purpose of using it to investigate the materials and substances contained in products to comply with environmental regulations.

JAPIA Sheet has the features shown as below.

- The JAPIA Sheet is upward compatible with Ver. 2.01 or later of JAMA/JAPIA Standard Material Datasheet (hereinafter JAMA Sheet), which was used before JAPIA Sheet.
- JAPIA Sheet uses unique substance list different from JAMA Sheet.
- Similar to the JAMA Sheet, the basics of data creation follow IMDS.
Refer to the latest version of "JAPIA Standard Material Datasheet Operation Rules".
(See page 1 for the source)

2. Operation entity and scope of usage of supply chain

(1) Operation entity

Name:

JAPIA Sheet Liaison Group

Organizational structure:

Japan Auto Parts Industries Association

Participating companies of Japan Construction Equipment manufacturers Association

Participating companies of Japan Industrial Vehicles Association

Participating companies of Japan Agricultural Machinery Manufacturers Association

Role:

- Maintaining JAPIA Sheet (Maintain the substance investigation tools necessary for the management of substances in products of each company)
- Maintaining the uniformity of material investigation operations using JAPIA Sheet *1
(Maintain unified operation method that is indispensable for smooth material survey in the supply chain)

*1: It does not prevent the use of other material investigation tools (IMDS, chemSHERPA, CDX, etc.) already recognized by the industries of construction machinery/industrial vehicle/agricultural machinery based on the agreement between companies.

Nor does it preclude the use of non-inclusion declarations based on agreements between companies when it is difficult to use substance research tools.

However, JAPIA Sheet format, controlled substances (GADSL), and JAPIA Sheet operation rules must be operated.

(2) Scope of usage of supply chain

[Automotive Industry]

Within suppliers on the supply chain (Car manufacturers do not use)

[Industries of construction machinery/industrial vehicle/agricultural machinery]

1) Within each participated company^{*2}

2) Within a subsidiary where each participating company has a majority stake (51% or more) or is strongly involved in management ^{*2}

3) Within suppliers on the supply chain of 1) and 2) above

^{*2} : Not only for business of construction machinery, industrial vehicles, agricultural machinery but also for all businesses of the company

3. System condition and operation environment

Microsoft Windows and MS-Excel are required to use JAPIA Sheet.

For the latest operating environment, refer to the JAPIA, CEMA, JIVA website and the latest version of the input manual.

4. Revision procedure and time schedule

In principle, the information is updated three times a year for the following purposes, but it is be notified you in advance.

Upgrade date	Data Input Form	External List	Closing of registration application by user
April 1st	(Not upgraded)	Reflecting GADSL update	End of December
July 1st	(Not upgraded)	Reflecting JIS update	End of March
October 1st	Addition of function	Reflecting GADSL update	End of June

If necessary, the revision time is reviewed.

The user uses the latest version in principle. However, because of the smooth changeover, provide a parallel operation period of about one month. The old and new versions can be distinguished by the date (YYMMDD) attached to the file name.

5. Password and available period

(1) Password

Data Input Form

- JAPIA shall disclose the password within JAPIA Sheet Liaison Group and JAPIA members limitedly
- Then they can disclose to the supplier individually along supply chain
- In case a non-JAPIA-member company in the automotive supply chain and its upper stream companies use JAPIA Sheet, the company at the starting point can inquire the JAPIA secretariat for the password

External List

JAPIA does not disclose the password because copyrighted materials are included.

(2) Available period

Data Input Form

In principle, valid for one month after issuing the next version.

External List

Be sure to use the latest specified external list.

(However, the old external list is valid for one month after the latest external list is issued.)

6. Operation Instruction

(1) Obtain Data Input Form and External List

- Download from JAPIA, CEMA, or JIVA Website (See page 1 for the source)
- Put the input form and external list in the same folder
(You cannot enter data or check errors, if not in the same folder.)

(2) Open and input data into Data Input Form

- Input data referring the manual
- Macro of Data Input Form must be valid
- Click [Row copy] for the copying the whole row
- Click [Row deletion] for deleting the whole low
- Click [Select] for selecting from the shown list

[Note] Substance listed in GADSL and included more than its threshold must be inputted.

(3) Check the inputted data

- Click [Data Check] for executing Error Check
- In case of OK as the result of Error Check, “No Error” will be shown
- Without resolving all errors, you cannot report to the requester.

[Note] Error check is to check the input format

Even if there is no error, the data content may be confirmed by the requester

(4) Submit datasheet to the requester

- Click [Export CSV] for creating CSV file and submit it

7. Data compatibilities with Old versions

(1) External List

Not compatible

Users must use the designated latest version of External List.

(See page 1 for the source)

Old version of External List cannot be used because error check and selective input do not work correctly with it.

(2) CSV File

Compatible

The JAPIA Sheet can import CSV files*

However some errors may occur because of the modification of materials and substances in the new external list. In case of errors, the data has to be corrected.

* : CSV file created by older version sheet (From Ver. 2.01 to Ver. 3.02b).

8. Copy right

The JAPIA Sheet Liaison Group holds the copyright for the JAPIA Sheet.

(Excerpt from JAPIA Sheet Input form)

<Notice>

You should note that the following actions are prohibited for all the relevant documents.

- You may not use those documents for any purposes other than the inter-firm exchange of information on substances of environmental concern contained in products.
- The relevant documents and programs are protected by laws and conventions on copyright and other intellectual property rights. You may not illegally apply any of those documents and programs.
- You may not distribute any of those documents and programs to a third party with whom you have not entered into a basic marketing agreement or other inter-firm contracts.

However, JAPIA owns the copyright for the substance list in the external list.

Ⅱ . Ver.4.01&4.01a&4.01b Release Information

The overview of release information of JAPIA Sheet upgrade is explained here.

List of upgrade items from Ver.4.00 to Ver. 4.01&4.01a&4.01b 14/25

File	Upgrade item	Upgrade Content
Data Input Form	BSL replacement process	Executing at every check timing
External File	Application Code	Corresponded to the IMDS change on 17 June 2020 (2: abolished, 8: newly listed) Reference P.15
	BSL	<ul style="list-style-type: none"> Corresponded to the adding application Updating SVHC flag, etc. Reference 「Appendix:BSL Changes_210401.pdf」 P.1-6 Updated according to GADSL 2021 Ver1.0, etc. Reference 「Appendix:BSL Changes_210401.pdf」 P.7-105
	VDA Material Classification	Deactivated 1.2, 5.4, 5.5.1, 8.1, 8.2 (The file name of the ExList was not changed.) Reference P.16-17
	Material List	Reflection of revised JIS standards Compliance with IMDS Reference P.18-23
External List Guide	I . Substance List	Changed where to submit to of “JAPIA Sheet Application Form for Adding BSL Substances”
	II . Material List	1.2, 5.4, 8.1, 8.2 lines were highlighted with gray in the VDA Material Classification table.
	III . External List Abstract	Added the sheet “IMDS APP” Changed the contents of sheet “MAT” Changed the contents of sheet “MAT”
Input Manual	Input Manual	Revised errors, etc.
Substance List	GADSL Reference List	Version changed from 2020-1.0 to 2021-1.0.

Application Code Update

Update	ID	Application
DEL	59	8(g) - Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages
ADD	75	8(g)(i) - Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages
	76	8(g)(ii-i) - Lead in solders to complete a viable electrical connection between the semiconductor die and the carrier within integrated circuit flip chip packages where that electrical connection consists of a semiconductor technology node of 90 nm or larger
	77	8(g)(ii-ii) - Lead in solders to complete a viable electrical connection between the semiconductor die and the carrier within integrated circuit flip chip packages where that electrical connection consists of a single die of 300 mm ² or larger in any semiconductor technology node
	78	8(g)(ii-iii) - Lead in solders to complete a viable electrical connection between the semiconductor die and the carrier within integrated circuit flip chip packages where that electrical connection consists of stacked die packages with dies of 300 mm ² or larger, or silicon interposers of 300 mm ² or larger
ADD	79	8(k) - Soldering of heating applications with 0,5A or more of heat current per related solder joint to single panes of laminated glazings not exceeding wall thickness of 2,1 mm. This exemption does not cover soldering to contacts embedded in the intermediate polymer
DEL	22	14 - Absorption refrigerators in motorcaravans
ADD	80	14(i) - Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution designed to operate fully or partly with electrical heater, having an average utilized electrical power input <75W at constant running conditions
	81	14(ii) - Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution designed to operate fully or partly with electrical heater, having an average utilized electrical power input ≥75W at constant running conditions
	82	14(iii) - Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution designed to fully operate with nonelectrical heater

Details of revisions on VDA material classification code (1/2)

With the abolition of VDA material classification codes 1.2, 5.4, 5.5.1, 8.1, 8.2 in IMDS Release 13.0, the external list has been revised as follows.

【Materials with VDA material classification code 1.2, 5.4, 5.5.1】

Since they no longer exist in the external list, they are not reflected in the external list.

【Materials with VDA material classification code 8.1】

Of the 142 materials, 138 have been abolished and integrated into the same materials with VDA material classification code 4.2.

For the remaining 4 materials, VDA material classification code has been changed to 4.2.

Note: For JIS standard or unique code (JAMAxxxx) materials, VDA material classification code is automatically converted to 4.2 when the error check of past data is executed.

However, in the case of materials of standards, even if the error check is executed on the past data, VDA material classification code is not automatically converted, so it is necessary to reselect the material or manually correct VDA material classification code to 4.2.

Details of revisions on VDA material classification code (2/2)

【Materials with VDA material classification code 8.2】

Only one material, “Carbon brush”, has been abolished and integrated into “Carbon”.

At the same time, VDA material classification code for “carbon” has been changed from 7.1 to 7.3.

Note: Executing the error check on the past data, VDA material classification code is automatically converted to 7.3.

Details of revisions on Material List(1/6)

(1) Reflection of revised JIS standards

JIS Norm	Revision date	Explanation of the revision
JISH2222 (Magnesium alloy ingots for die castings)	Dec., 2020	Change of Material Codes MD1B→MD-AZ91B, MD1D→MD-AZ91D, MD5→MD-AM20A, MD4→MD-AM50A, MD2B→MD-AM60B, MD6→MD-AS21A, MD3B→MD-AS41B Addition of Materials MD-AZX912, MD-AXE500, MD-AXE622, MD-AXJ620, MD-AXS620, MD-AE44, MD-AJ52, MD-AJ62, MD-AJX931
JISH5303 (Magnesium alloy die castings)	Dec., 2020	Change of Material Codes MDC1B→MDC-AZ91B, MDC1D→MDC-AZ91D, MDC5→MDC-AM20A, MDC4→MDC-AM50A, MDC2B→MDC-AM60B, MDC6→MDC-AS21A, MDC3B→MDC-AS41B Addition of Materials MDC-AZX912, MDC-AXJ620, MDC-AXS620, MDC-AJ52, MDC-AJ62, MDC-AJX931
JISH3250 (Copper and copper alloy rods and bars)	Jan., 2021	Change of Material Components C1201, C2600, C2700, C2800, C3601, C3602, C3603, C3604, C3605, C3712, C3771, C6802, C6803, C6804, C6932 Addition of Materials C6810, C6820, C6931
JISG3108 (Rolled carbon steel for cold-finished steel bars)	Feb., 2021	Change of Material Components SGD1, SGD2, SGD3, SGD4
JISG3466 (Carbon steel square and rectangular tubes for general structure)	Feb., 2021	Change of Material Components STKR490
JISG4801 (Spring steels)	Feb., 2021	Addition of Materials SUP11A, SUP14

Details of revisions on Material List(2/6)

(2) Compliance with IMDS: Change of IMDS registered names

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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Copper Alloy C5050	JISH3110	C5050@	3.2	C5050
Copper Alloy C5071	JISH3110	C5071@	3.2	C5071
Copper Alloy C5102	JISH3110	C5102@	3.2	C5102
Copper Alloy C5111	JISH3110	C5111@	3.2	C5111
Copper Alloy C5191	JISH3110	C5191@	3.2	C5191
Copper Alloy C5212	JISH3110	C5212@	3.2	C5212
Copper Alloy C7451	JISH3110	C7451@	3.2	C7451
Copper Alloy C7521	JISH3110	C7521@	3.2	C7521
Copper Alloy C7541	JISH3110	C7541@	3.2	C7541
Copper Alloy C1751	JISH3130	C1751@	3.2	C1751
Copper Alloy C1990	JISH3130	C1990@	3.2	C1990



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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS 登録名称
Copper Alloy C5050	JISH3110	C5050@	3.2	C5050 (Phosphor bronze)
Copper Alloy C5071	JISH3110	C5071@	3.2	C5071 (Phosphor bronze)
Copper Alloy C5102	JISH3110	C5102@	3.2	C5102 (Phosphor bronze)
Copper Alloy C5111	JISH3110	C5111@	3.2	C5111 (Phosphor bronze)
Copper Alloy C5191	JISH3110	C5191@	3.2	C5191 (Phosphor bronze)
Copper Alloy C5212	JISH3110	C5212@	3.2	C5212 (Phosphor bronze)
Copper Alloy C7451	JISH3110	C7451@	3.2	C7451 (Nickel silver)
Copper Alloy C7521	JISH3110	C7521@	3.2	C7521 (Nickel silver)
Copper Alloy C7541	JISH3110	C7541@	3.2	C7541 (Nickel silver)
Copper Alloy C1751	JISH3130	C1751@	3.2	C1751 (Low copper beryllium alloy for springs)
Copper Alloy C1990	JISH3130	C1990@	3.2	C1990 (Copper titanium alloy for springs)

Details of revisions on Material List (3/6)

(2) Compliance with IMDS: Change of IMDS registered names

Remarks: Regarding C5210 of JIS H3130, the content of some components was changed to correct the error.

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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Copper Alloy C5210	JISH3130	C5210@	3.2	C5210
Copper Alloy C5240	JISH3130	C5240@	3.2	C5240
Copper Alloy C7270	JISH3130	C7270@	3.2	C7270
Copper Alloy C7701	JISH3130	C7701@	3.2	C7701
Copper Alloy C5071	JISH3270	C5071@	3.2	C5071
Copper Alloy C5102	JISH3270	C5102@	3.2	C5102
Copper Alloy C5111	JISH3270	C5111@	3.2	C5111
Copper Alloy C5191	JISH3270	C5191@	3.2	C5191
Copper Alloy C5212	JISH3270	C5212@	3.2	C5212
Copper Alloy C5341	JISH3270	C5341@	3.2	C5341
Copper Alloy C7451	JISH3270	C7451@	3.2	C7451



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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Copper Alloy C5210	JISH3130	C5210@	3.2	C5210 (Phosphor bronze for springs)
Copper Alloy C5240	JISH3130	C5240@	3.2	C5240 (Phosphor bronze for springs)
Copper Alloy C7270	JISH3130	C7270@	3.2	C7270 (Copper nickel tin alloy for springs)
Copper Alloy C7701	JISH3130	C7701@	3.2	C7701 (Nickel silver)
Copper Alloy C5071	JISH3270	C5071@	3.2	C5071 (Phosphor bronze)
Copper Alloy C5102	JISH3270	C5102@	3.2	C5102 (Phosphor bronze)
Copper Alloy C5111	JISH3270	C5111@	3.2	C5111 (Phosphor bronze)
Copper Alloy C5191	JISH3270	C5191@	3.2	C5191 (Phosphor bronze)
Copper Alloy C5212	JISH3270	C5212@	3.2	C5212 (Phosphor bronze)
Copper Alloy C5341	JISH3270	C5341@	3.2	C5341 (Free-cutting phosphor bronze)
Copper Alloy C7451	JISH3270	C7451@	3.2	C7451 (Nickel silver)

Details of revisions on Material List(4/6)

(2) Compliance with IMDS: Change of IMDS registered names

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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Copper Alloy C7521	JISH3270	C7521@	3.2	C7521
Copper Alloy C7541	JISH3270	C7541@	3.2	C7541
Copper Alloy C7701	JISH3270	C7701@	3.2	C7701
Copper Alloy C7941	JISH3270	C7941@	3.2	C7941
Stainless Steel SUS630	JISG4308	SUS630	1.1.2	SUS630
Steel SK140	JISG4401	SK140	1.1.1	SK140
Steel SK95	JISG4401	SK95	1.1.1	SK95
Steel SK85	JISG4401	SK85	1.1.1	SK85
Steel SK75	JISG4401	SK75	1.1.1	SK75
Steel SK65	JISG4401	SK65	1.1.1	SK65
Steel SK60	JISG4401	SK60	1.1.1	SK60



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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Copper Alloy C7521	JISH3270	C7521@	3.2	C7521 (Nickel silver)
Copper Alloy C7541	JISH3270	C7541@	3.2	C7541 (Nickel silver)
Copper Alloy C7701	JISH3270	C7701@	3.2	C7701 (Nickel silver)
Copper Alloy C7941	JISH3270	C7941@	3.2	C7941 (Free-cutting nickel silver)
Stainless Steel SUS630	JISG4308	SUS630	1.1.2	SUS630 (Stainless steel)
Steel SK140	JISG4401	SK140	1.1.1	SK140 (Carbon tool steel)
Steel SK95	JISG4401	SK95	1.1.1	SK95 (Carbon tool steel)
Steel SK85	JISG4401	SK85	1.1.1	SK85 (Carbon tool steel)
Steel SK75	JISG4401	SK75	1.1.1	SK75 (Carbon tool steel)
Steel SK65	JISG4401	SK65	1.1.1	SK65 (Carbon tool steel)
Steel SK60	JISG4401	SK60	1.1.1	SK60 (Carbon tool steel)

Details of revisions on Material List (5/6)

(2) Compliance with IMDS: Change of IMDS registered names

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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Superalloy bars NCF600	JISG4901	NCF600	3.4	NCF600
Superalloy bars NCF601	JISG4901	NCF601	3.4	NCF601
Superalloy bars NCF625	JISG4901	NCF625	3.4	NCF625
Superalloy bars NCF690	JISG4901	NCF690	3.4	NCF690
Superalloy bars NCF718	JISG4901	NCF718	3.4	NCF718
Superalloy bars NCF750	JISG4901	NCF750	3.4	NCF750
Superalloy bars NCF751	JISG4901	NCF751	3.4	NCF751
Superalloy bars NCF800	JISG4901	NCF800	1.1.2	NCF800
Superalloy bars NCF800H	JISG4901	NCF800H	1.1.2	NCF800H
Superalloy bars NCF825	JISG4901	NCF825	3.4	NCF825
Superalloy bars NCF80A	JISG4901	NCF80A	3.4	NCF80A



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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Superalloy bars NCF600	JISG4901	NCF600	3.4	NCF600 (Corrosion and heat resisting superalloy)
Superalloy bars NCF601	JISG4901	NCF601	3.4	NCF601 (Corrosion and heat resisting superalloy)
Superalloy bars NCF625	JISG4901	NCF625	3.4	NCF625 (Corrosion and heat resisting superalloy)
Superalloy bars NCF690	JISG4901	NCF690	3.4	NCF690 (Corrosion and heat resisting superalloy)
Superalloy bars NCF718	JISG4901	NCF718	3.4	NCF718 (Corrosion and heat resisting superalloy)
Superalloy bars NCF750	JISG4901	NCF750	3.4	NCF750 (Corrosion and heat resisting superalloy)
Superalloy bars NCF751	JISG4901	NCF751	3.4	NCF751 (Corrosion and heat resisting superalloy)
Superalloy bars NCF800	JISG4901	NCF800	1.1.2	NCF800 (Corrosion and heat resisting superalloy)
Superalloy bars NCF800H	JISG4901	NCF800H	1.1.2	NCF800H (Corrosion and heat resisting superalloy)
Superalloy bars NCF825	JISG4901	NCF825	3.4	NCF825 (Corrosion and heat resisting superalloy)
Superalloy bars NCF80A	JISG4901	NCF80A	3.4	NCF80A (Corrosion and heat resisting superalloy)

Details of revisions on Material List (6/6)

(3) Compliance with IMDS: Change of VDA Classifications

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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Zinc phosphate coating	EN ISO9717	Znph	9.8	Zinc phosphate coating
Iron phosphate coating	EN ISO9717	Feph	9.8	Iron phosphate coating
Manganese phosphate coating	EN ISO9717	Mnph	9.8	Manganese phosphate coating
Zinc calcium phosphate coating	EN ISO9717	ZnCaph	9.8	Zinc calcium phosphate coating
Zinc phosphate coating Ni-content	EN ISO9717	ZnNiph	9.8	Zinc phosphate coating Ni-content



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Material Name	Norms /Standards (Public standard)	Material Number	VDA Classification	IMDS Name
Zinc phosphate coating	EN ISO9717	Znph	7.3	Zinc phosphate coating
Iron phosphate coating	EN ISO9717	Feph	7.3	Iron phosphate coating
Manganese phosphate coating	EN ISO9717	Mnph	7.3	Manganese phosphate coating
Zinc calcium phosphate coating	EN ISO9717	ZnCaph	7.3	Zinc calcium phosphate coating
Zinc phosphate coating Ni-content	EN ISO9717	ZnNiph	7.3	Zinc phosphate coating Ni-content

Note: Executing the error check on the past data, VDA material classification code is automatically converted to 7.3.

List of documents of JAPIA Sheet Ver.4.01b (Apr. 1, 2021)

Document		File Name	
[0]Overview			
JAPIA Standard Material Datasheet Overview		EN	JapiaSheet_Overview_EN_210401.pdf
	Appendix:BSL Changes	EN	Appendix:BSL Changes_210401.pdf
[2]Data Input Form			
JAPIA Sheet (Data Input Form)		EN	JapiaSheet_EN_201001.xlsm
[3]External File			
JAPIA Sheet (External List)		EN	EXLIST-2021-04-01EN.xlsx
External List Guide		EN	ExList_Guide_EN_210401.pdf
	Appendix:External List Abstract	EN	ExList_Abstract_EN_210401.xlsx
[4]Manual			
Input Manual		EN	Input Manual_EN_201001.pdf
	JAPIA Sheet Input Sample	EN	JapiaSheet_Sample_EN_201001.xlsx
[5]Substance List			
GADSL Reference List		EN	GADSL Reference List 2021Ver.1.0.xlsx

History

Revision number	Revision date	Applicable Version	Description
N	Oct. 01, '20	4.01	Creation new
1	Jan. 11, '21	4.01a	Added information on Ver.4.01a Changed due to the abolition of VDA material classification code 1.2, 5.4, 5.5.1, 8.1 and 8.2 in IMDS Release 13.0.
2	Apr.01, '21	4.01b	Addition of change points of the External list GADSL version changed from 2020-1.0 to 2021-1.0.
3			
4			
5			