

JAMA/JAPIA Standard Material Datasheet  
Version 3.02  
Instruction for Using

October 1, 2019

Japan Automobile Manufacturers Association, Inc. (JAMA)  
Environmental Committee  
Chemical Substances Management Subcommittee  
Japan Auto Parts Industries Association (JAPIA)  
Environmental Committee  
Product Environmental Committee

Version	Date	Notes
2.00	April 1, 2006	New issue (datasheet Version2.00)
2.01	October 1, 2006	Revised for datasheet (Version2.01) (Notation of Version is also changed.)
2.02	July 1, 2007	Revised for datasheet (Version2.02)
2.04	November 1, 2008	Revised for datasheet (Version2.04)
2.05	June 1, 2009	Revised for datasheet (Version2.05)
2.10	October 1, 2009	Revised for datasheet (Version2.10)
2.11	June 1, 2010	Revised for datasheet (Version2.11)
2.11	July 14, 2010	Revised for PC performances required to handle JAMA sheet (P.3)
2.12	October 1, 2010	Revised for datasheet (Version2.12)
2.13	June 1, 2011	Revised for datasheet (Version2.13)
2.14	October 1, 2011	Revised for datasheet (Version2.14)
2.15	-	<i>There is no revision.</i>
2.16	June 1, 2012	Revised for datasheet (Version2.16)
2.17	October 1, 2012	Revised for datasheet (Version2.17)
2.18	June 1, 2013	Revised for datasheet (Version2.18)
2.20	October 1, 2013	Revised for datasheet (Version2.20)
2.21	-	<i>There is no revision.</i>
2.30	October 1, 2014	Revised for datasheet (Version2.30)
2.31	June 1, 2015	Revised for datasheet (Version2.31)
2.32	November 1, 2015	Revised for datasheet (Version2.32)
2.33	June 1, 2016	Revised for datasheet (Version2.33)
2.40	November 1, 2016	Revised for datasheet (Version2.40)
2.41	June 1, 2017	Revised for datasheet (Version2.41)
2.50	October 1, 2017	Revised for datasheet (Version2.50)
2.51	June 1, 2018	Revised for datasheet (Version2.51)
3.00	October 1, 2018	Revised for datasheet (Version3.00)
3.01	June 1, 2019	Revised for datasheet (Version3.01)
3.02	October 1, 2019	Revised for datasheet (Version3.02)

**Information :** The document that explains the contents of revision ‘Summary of JAMA/JAPIA Standard Material Datasheet Version Upgrade for Version 3.02’ is released in the following site.

Welcome to visit Japan Auto Parts Industries Association (JAPIA) site

JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> ‘JAMA/JAPIA Standard Material Datasheet’

Since this page, JAMA/JAPIA Standard Material Datasheet is partially abbreviated as JAMA sheet.

## 1. Purpose

This manual explains how to use the JAMA sheet with easy examples to support data entry.  
For standards and definitions in detail, please refer to 'Operational Procedure'.

**Information :** Go to the following site to obtain 'Operational manual (Japanese only)'

JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

## 2. What is JAMA Sheet

JAMA sheet is the standard investigation sheet to collect the information of materials and substances used in auto parts to meet both domestic and overseas environmental rules. JAMA sheet consists of 'Data input form' and 'External list', which is revised in a timely manner. Please obtain the latest JAMA sheet from the following site or your requestor.

**Information :** Go to the following site to obtain 'Data input form' or 'External list'.

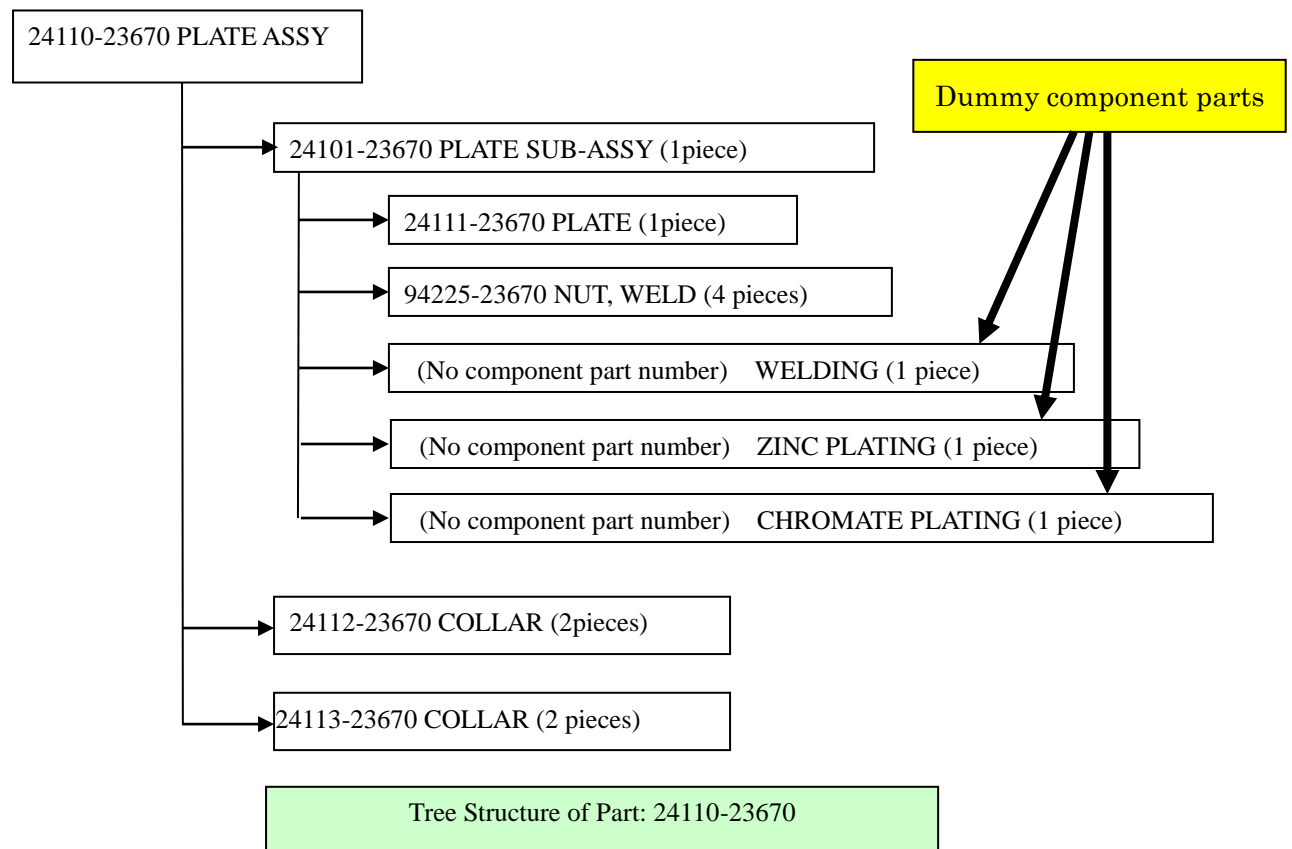
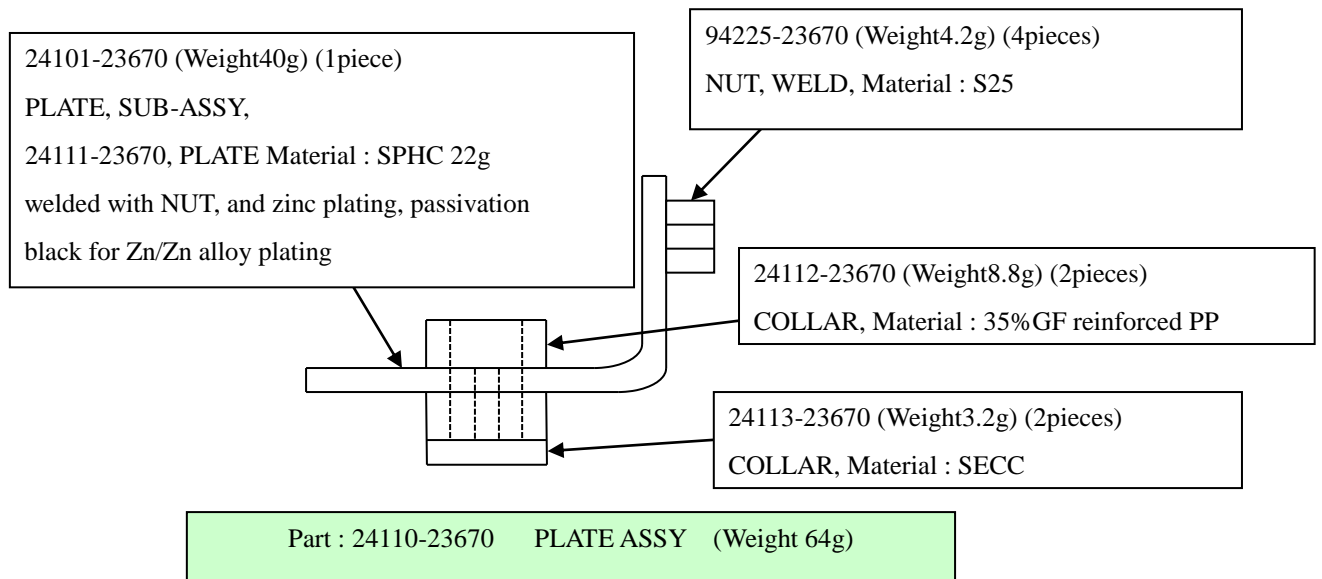
JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

The latest version of Data input form is 'jamasheet\_en20191001.xlsm', while of the External list is 'EXLIST-2019-10-01EN.xlsx'.

### 3. Illustration of Input Model

This illustration shows how to input the data of the following part to the JAMA sheet.



Delivery part				
Number	Name	Weight	Quantity	Note
24110-23670	PLATE ASSY	64 g	1	

Component part				
Number	Name	Weight	Quantity	Note
24101-23670	PLATE SUB-ASSY	40 g	1	
24111-23670	PLATE	22 g	1	
94225-23670	NUT,WELD	4.2 g	4	
(No number)	WELDING	1.0 g	1	Dummy component parts
(No number)	ZINC PLATING	0.18 g	1	Dummy component parts
(No number)	CHROMATE PLATING	0.02 g	1	Dummy component parts
24112-23670	COLLAR	8.8 g	2	
24113-23670	COLLAR	3.2 g	2	

**BOM of part : 24110-23670**

This part is exemplified here to explain the data input method of the metal (plating part) and plastics.

For other data input methods, go to the following site.

**Information :** Go to the following site to obtain 'Data input sample'

JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

**Important !**

**Notice : System requirements for the JAMA sheet**

The system requirements depend on the Excel (Software) and Windows (OS).

**Information :** (from Official Site of Microsoft )

**Windows 7 System Requirements**

- CPU                1GHz or faster 32-bit (x86) processor
- Memory           1GB RAM (32-bit)
- Hard disk        16GB available hard disk space (32-bit)

**Excel 2013(32-bit) System Requirements**

- CPU                1GHz processor or higher
- Memory           1GB RAM or higher
- Hard disk        3GB available disk space

**Notice : Operating environment on the JAMA sheet**

This version of the JAMA sheet was developed and evaluated in the following software operating environments.

In addition, in order to improve the operating environment of the JAMA sheet, the Data input form has been changed from ".xls" to ".xlsm" from Ver. 3.02. Also due to the modifications made in line with the IMDS upgrade, as the number of lines in the internal Excel-sheet data has been increased dramatically, the file name extension of external list has been changed from ".xls" to ".xlsx" from Ver.2.30.

- Windows 7 SP1 (32-bit)    +    Excel 2013 (32-bit)
- Windows 10 (64-bit)       +    Excel 2016 (64-bit)

The versions of both Windows and Excel that Microsoft ends its support are also out of support by JAMA sheet.

**Notice : How to set up Excel for using macro function**

JAMA sheet uses the macro function in Excel, so you need to set up appropriate security settings. For how to setup, please see < Supplement 2> at the end of the manual.

**Notice :** This instruction is based on the following software operating environment about description of functions and operations that depend on OS and Excel. Please note there are several disagreements with the commentary part in other operating environments.

- Windows 7 SP1 (32-bit)    +    Excel 2010 (32-bit)

(Mismatch example) Display the taskbar, Display the popup window, etc.

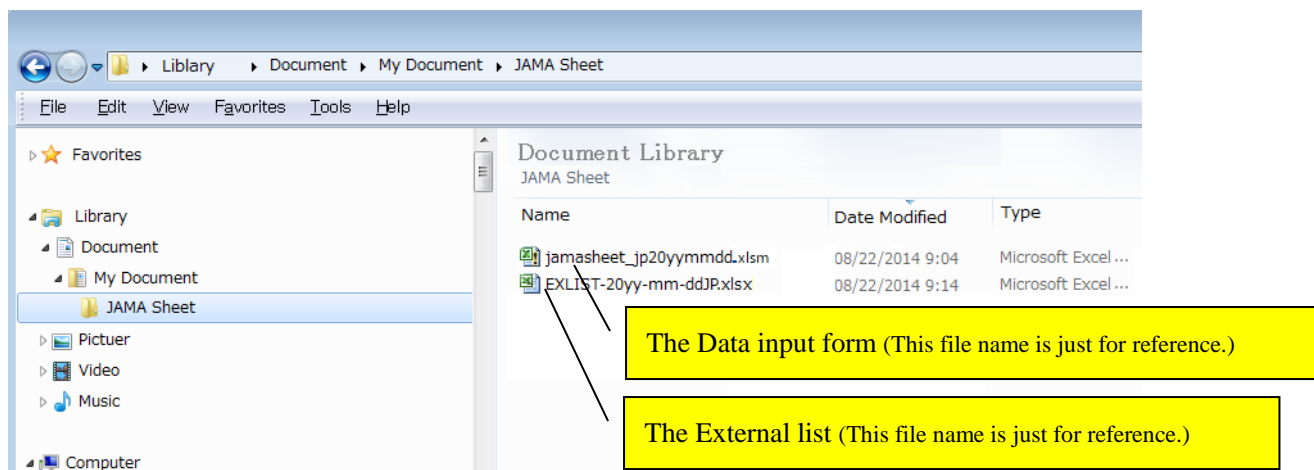
#### 4. Data Input Procedure

Overview of the procedure to enter data.

- 1) Obtain the JAMA Sheet
- 2) Starting procedure
- 3) Enter the following data to Entry sheet
  - (1) Delivery part table
  - (2) Component part table
  - (3) Component materials used for each part No. (Standard, Material table, etc.)
  - (4) Substance used for each material (Substance table)
  - (5) Recycled and Regulated materials and substances (Application table)
- 4) Error check
- 5) Sending the data

##### 1) Obtain the JAMA sheet

Obtain the latest JAMA Sheet ('Data input form' and 'External list') (Refer to P.3) and save 2 Excel files in the same folder. These 2 files must be saved in the same folder to make Excel macro-software work..

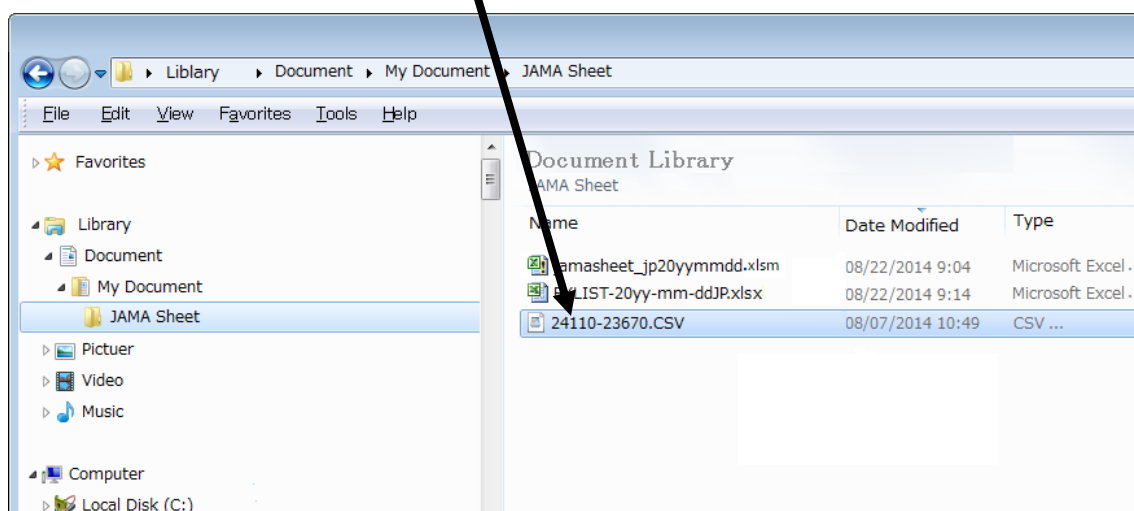


#### Notice !

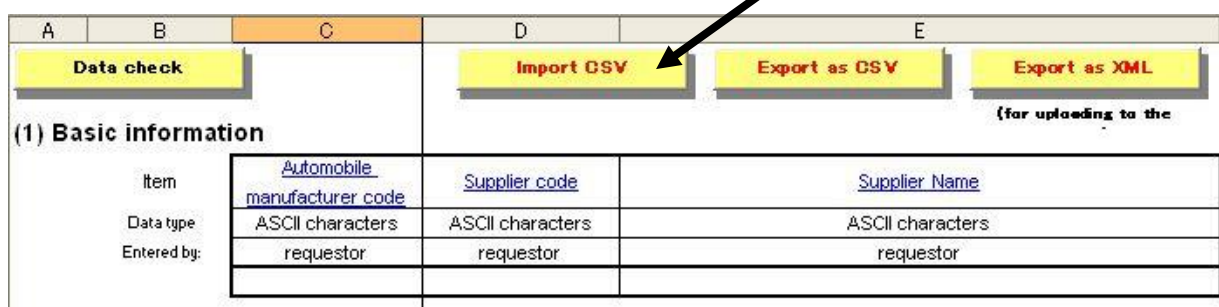
**Do not change the External list name (EXLIST-20YY-MM-DDJP). It is the information required for making Excel macro work. For the latest External list, please go to JAPIA Official Site.**

**Also, please do not include an external list of different versions in the same folder.**

When CSV file named an investigated part No. is sent from your Requestor, it is necessary to import the file to the JAMA sheet. Save CSV file in the appropriate folder.



When clicking 'Import CSV' button in the sheet named 'Entry sheet' in the JAMA sheet, it is able to import the data.



### Notice !

i) JAMA sheet to import CSV file shouldn't have any data in it.

It is also impossible to import CSV file to the JAMA sheet with Supplier information in 'Basic Information' entered. If you click the 'Delete all' button, you can initialize the sheet.

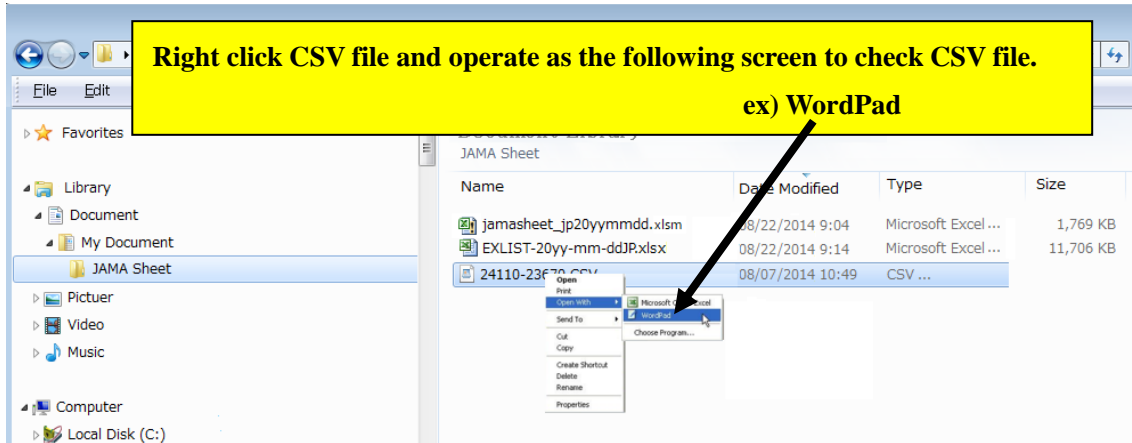
ii) When applying the existing data, this function is used. Even after the JAMA sheet is changed after upgrade, it is possible to import the existing data in the old-version to the new version of the JAMA sheet. In such a case, please do not forget entering the data changed due to the upgrade. Also, sometimes when checking an error, an error occurs due to the change in the External list in accordance with the revision of JIS. Please correct such an error.

iii) Don't save CSV file after opening it with Excel. It will damage the data and make it impossible to import CSV file. Please open CSV file with Wordpad or Memo to check

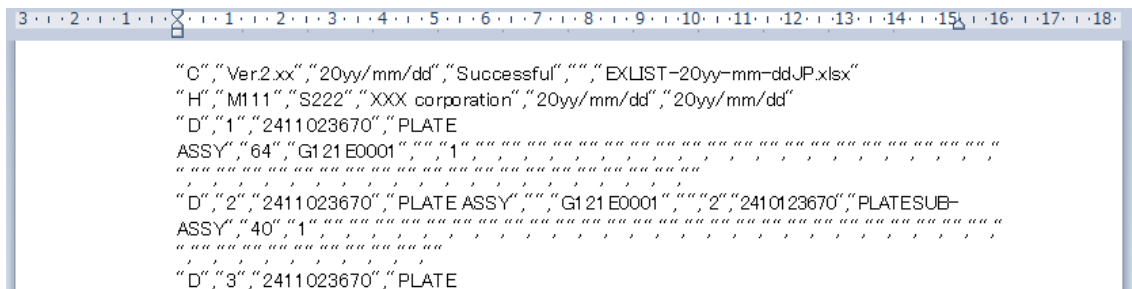


**whether the data in CSV file is damaged or not.**

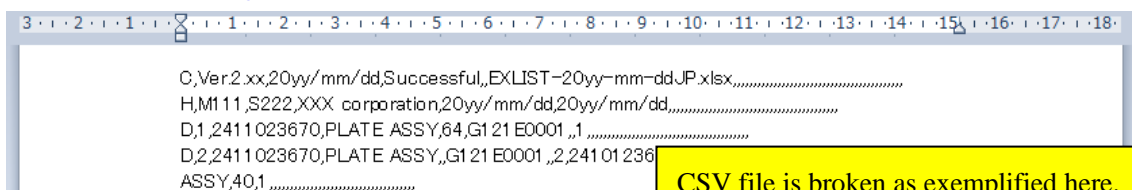
#### Information : How to check CSV file



#### Information : Normal CSV file



#### Information : Damaged CSV file



CSV file is broken as exemplified here.

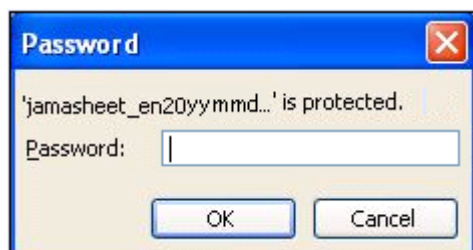
“ “marks were all gone.

#### Information : How to recover the damaged CSV file

Depending on the contents of the data, please select either one of the following methods; ask your requestor for resending the data again or open the damaged CSV file with Excel to copy the data including part No. to Entry sheet.

## 2) Starting procedure

Double-click 'Data input form' file, and then enter the password.



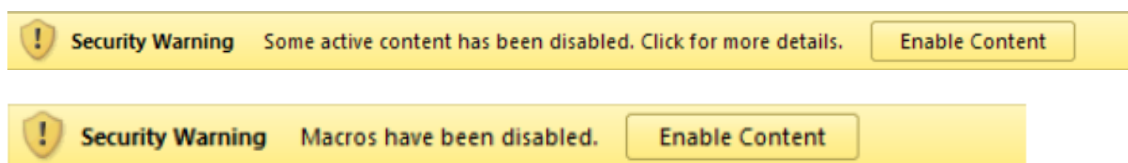
### Notice !

- i) **Enter password in Ascii characters. Upper-case or lower-case is recognized.**
- ii) Password will be valid until the JAMA sheet is revised. In most cases of the JAMA sheet revisions, the password will be changed.
- iii) Requestor will disclose the password. Please use the password only within the supply chain for internal investigation. Cares must be paid to prevent the irrelevant third parties from obtaining the password.
- iv) External list can not be opened for security. Please refer to 'JAMA/JAPIA Standard Material Data Sheet (External list): Abstract' for the material information.

**Information :** Go to the following site to obtain 'JAMA/JAPIA Standard Material Data Sheet (External list): Abstract'. JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

When you start the JAMA sheet and find the following 'Message Bar', please click the 'Enable Content'.



### Notice ! (In the case of Excel2010)

When you don't find this 'Message Bar', your computer might be in a state that is attacked by malicious users, or where macros that are embedded in the JAMA sheet does not work. In such a case, it is recommended to setup the Excel appropriately

**with referring to < Supplement 2> at the end of the manual.**

‘Data input form’ consists of 4 types of sheet.

No.	Sheet name	Function
1	Cover	Overview of the JAMA sheet
2	Entry sheet	Input, Error checking, File IO
3	Description	Description of cells in Entry sheet
4	MESSAGE	Display Error check result

Use ‘Entry sheet’ for entering the information.

The screenshot displays the 'Entry sheet' interface. At the top, there's a menu bar with buttons: 'Data check', 'Import GSV', 'Export as GSV', 'Export as XML', and 'Delete all'. Below the menu bar, there's a section for 'Basic information' with fields for 'Item', 'Date type', and 'Entered by'. The main section is 'Investigation result of Material and Substance', which contains a table with columns for 'Item No.', 'SEQ. No.', 'Part Number', 'Part name', 'Weight', 'Drawing Change Level', and 'Investigation status'. The table has multiple rows for data entry. A yellow box with an arrow points to the 'D-24' cell in the bottom right corner of the table, with the text 'Click D-24 cell'.

Click D-24 cell

If you want more of the input lines, you can hide the title row by clicking on the "-" icon. The icon will be changed to the "+" icon. And if you click the "+" icon, you can return to their default state.

### 3) Enter the following data to Entry sheet

#### (1) Delivery part table

Firstly 'D-24 cell' is entered. The following delivery part data is entered.

Item No.	Item Name	Requirement/Option
2	Part number	<b>Required</b>
3	Part name	<b>Required</b>
4	Part weight	<b>Required</b>
5	Drawing change No.	Enter only when the design is changed.
6	Investigation flag	Optional, (Follow the instruction from Requestor)
7	Part Structure Level	<b>Required, Enter '1'</b>

#### (2) Investigation result of Material and Substance

Item No.	1	2	3	4	5	6	7
	DELIVERY PART						
Item	SED No	Part Number	Part name	Weight [g/part]  Auto adjustment	Drawing Change Level	Investigation flag  Select	Part Structure
Definition	Serial number assigned to data	Part Number of supplier delivery to requestor	Part name of supplier delivery to requestor	Weight of delivery part, basically the weight value in the drawing [g/part]	Designing change number, if occurred.	Identification code that is part was reported to requestor or not	Level of a component part of delivery part is consistent some component part.
Entered by:	supplier	requestor or supplier	requestor or supplier	requestor or supplier	requestor or supplier	requestor or supplier	supplier
Required/Optional	required	required	required	required (Enter in only the top row for the same part)	optional	Optional of requestor	required (Enter "1" in case of material for DELIVERY PART are inputted in this row)
Data type	Number	ASCII characters	ASCII characters	Number	ASCII characters	Number	Number
number of digits (integer number)	5	25	40	9	10	2	2
number of digits (decimal point)	0	0	0	6	0	0	0
	2411023670	PLATE ASSY		64	G121E0001		1

Result of entry

## (2) Component part table

Next enter the information of part. To enter efficiently, it is convenient to use 'Row copy'

Procedure 2 : Click 'Row copy' for as many times as the number of component parts. (Since this example has three component parts, click 'Row copy' three times.)

Select the Procedure 1:24

(2) Investigation result of Material and Substance							
Item No.	1	2	3	4	5	6	7
15	Row copy						
16	Row deletion						
17	Item						
18		DELIVERY PART					
19		SEQ. No.	Part Number	Part name	Weight [g/part]	Drawings Change Level	Investigation n.flax
20	Data type	Number	ASCII characters	ASCII characters	Number	ASCII characters	Number
21	number of digits (integer number)	5	25	40	9	10	2
22	number of digits (decimal points)	0	0	0	6	0	0
23							
24		2411 023670	PLATE ASSY		64	G1 21 E0001	1
25							

After three rows are copied

(2) Investigation result of Material and Substance							
Item No.	1	2	3	4	5	6	7
15	Row copy						
16	Row deletion						
17	Item						
18		DELIVERY PART					
19		SEQ. No.	Part Number	Part name	Weight [g/part]	Drawings Change Level	Investigation n.flax
20	Data type	Number	ASCII characters	ASCII characters	Number	ASCII characters	Number
21	number of digits (integer number)	5	25	40	9	10	2
22	number of digits (decimal points)	0	0	0	6	0	0
23							
24		1	2411 023670	PLATE ASSY	64	G1 21 E0001	1
25		2	2411 023670	PLATE ASSY		G1 21 E0001	1
26		3	2411 023670	PLATE ASSY		G1 21 E0001	1
27		4	2411 023670	PLATE ASSY		G1 21 E0001	1

Next fill in the following items.

Item No.	Item Name	Requirement/Option
7	Part Structure Level	Required. This is the equivalent to the level of 'Bill of Material (BOM)'.
8	Part number	Required when it is 'Requestor's part number'
9	Part name	Required
10	Weight	Required (Only the top line (Refer to Notice) )
11	Quantity	Required

**Notice !** Please keep in mind that enter at least the name of part of either part number or part name taking into consideration the convertibility with IMDS.

**Notice !** For 'Automatic coordination function' in 'Part weight', please refer to 'Operational manual (Japanese only)'. This function helps to prevent an error in the error check.

**Information :** For 'Operational manual (Japanese only)', refer to → P.29

JAPIA Official Site :

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

Enter three parts.

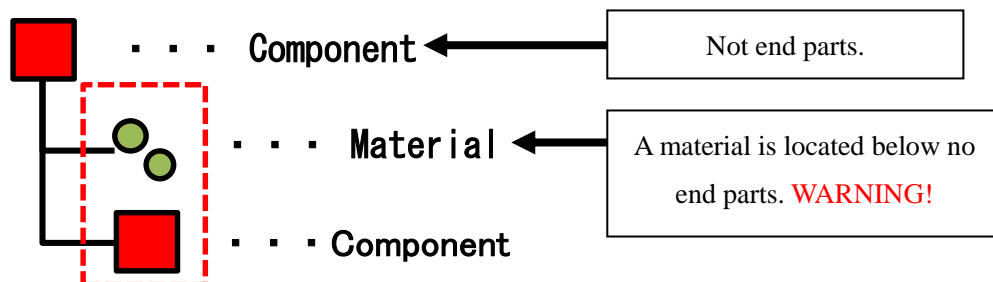
**After parts are entered (Change part structure level to '2').**

(2) Investigation result of Material an

Item No.	1	6	7	8	9	10	11
	COMPONENT PARTS						
Row copy	Item	Investigation n flag	Part Structure	Part Number	Part name	Weight [a/part]	Quantity [upper part]
Row deletion	Item	Select				Auto adjustment	
Data type	Number	Number	Number	ASCII characters	ASCII characters	Number	Number
number of digit (integer number)	5	2	2	25	40	9	3
number of digit (decimal point)	0	0	0	0	0	6	0
1			1				
2			2	2410123670	PLATE SUB-ASSY	40	1
3			2	2411223670	COLLAR	8.8	2
4			2	2411323670	COLLAR	3.2	2

Next enter the information of 24101-23670 Plate Sub-Assembly. This part has two parts of 24111-23670 PLATE and 94225-23670 NUT, WELD that are zinc plated after WELD.

With this example, care must be taken when entering the child-parts. In the case of the configuration where component parts and materials are located mixed in the same level as shown in the following figure, "Warning" will be displayed during error check.



Therefore, in the case such as welding rod, zinc plating and chromate plating, setup the dummy component part in the configuration and enter the materials of the welding rod, zinc plating and chromate plating beneath the dummy component part.

Copy the row 25 as many as child-parts including the dummy component parts and enter the child-parts. In this example, there are five child-parts. So you will copy five times. Next, referring to BOM (Refer to P.4-5), represent a parent-child relationship by 'Part structure level'. Also enter '3' to the Part structure level (Item No. 7) of the formal dummy component parts in the same level as PLATE and NUT.

Next, referring to BOM, enter 'Component part number', 'Component part name', 'Component part weight' and 'Component part quantity'.

You can either leave the Part number of the dummy component part blank or enter a dummy component part number (1,2,3,..., DUMMY1,DUMMY2,DUMMY3, etc.) .

## Result after all parts are entered

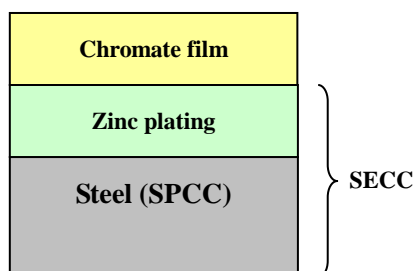
12	(2) Investigation result of Material						
13							
14							
15							
	Item No.	1	6	7	8	9	10
						COMPONENT PARTS	
	Row copy						
	Row deletion						
	Item	SEO No.	Investigati on flag	Part Structure	Part Number	Part name	Weight [g/part]
			Select				Auto adjustment
16							
23							
24							
25		1		1			
26		2		2	2410123670	PLATE SUB-ASSY	40
27		3		3	2411123670	PLATE	22
28		4		3	9422623670	NUT,WELD	42
29		5		3		WELDING	10
30		6		3		ZINC PLATING	018
31		7		3		CHROMATE PLATING	002
32		8		2	2411223670	COLLAR	88
33		9		2	2411323670	COLLAR	32
34							



### (3) Component materials used for each part No. (Standard, Material table, etc.)

Next enter the data of materials. What is important here is it is the number of components that dictates the number of rows'. Entry method will be explained specifically using the Chromated electrolytic-zinc-coated steel sheet (SECC), which is used for other component part COLLAR 24113-23670, as an example.

#### Material Composition of COLLAR



#### Important !

When entering the material information, the composition of materials must be entered. For example, in the case of Plated steel such as SECC, the information of SPCC, which is the steel before plating, is required.

It is judged that COLLAR consists of three kinds of materials. The following items are entered for these three materials.

**Notice !** Under the environment regulations related to the environmental load substances such as End of Vehicles Directive (EU-ELV), 'the homogeneous material' is used as a basic unit when evaluating the density of environmental load substances. Therefore, Zinc chromate film must be separated into Zinc plating and conversion coating such as Chromate film. Zinc plating steel is not considered as homogeneous material.

**Information :** Plated steel sheet, Coated steel sheet, and other coated materials are not included in the External list as they are not homogeneous materials. Therefore, when entering Plated steel sheet SECC, it is considered as an error in the error check.

Item No.	Item name	Data needed
13	Material name	<b>Required</b>
14	Trade name	Optional
15	Material weight	<b>Required (Only the top row. )</b>
16	Number of applicable industry standard	<b>Required</b>
17	Material number	<b>Required (1.x – 4.x)</b> , Optional (5.x – 9.x)
18	Material symbol	<b>Required (5.x)</b> , Optional (except 5.x)
19	VDA Material classification	<b>Required (Category that VDA defines)</b>

**Information :** Go to the following page to obtain 'VDA classification'

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

To enter three materials, copy the row 32 twice to create three rows of 32.

12	(2) Investigation result of Material	Result after copying the row twice									
13		Item No.	1	6	7	8	COMPONENT PARTS				
14											11
15											
16		Row copy									
17		Row deletion									
18		Item	SEQ No	Investigation Flag	Part Structure	Part Number	Part name	Weight [g/part]	Quantity [upper part]		
19				Select				Auto adjustment			
20			1		1						
21			2		2	2410123670	PLATE SUB-ASSY	40	1		
22			3		3	2411123670	PLATE	22	1		
23			4		3	9422623670	NUTWELD	4.2	4		
24			5		3		WELDING	1.0	1		
25			6		3		ZINC PLATING	0.18	1		
26			7		3		CHROMATE PLATING	0.02	1		
27			8		2	2411323670	COLLAR	8.8	2		
28			9		2	2411323670	COLLAR	3.2	2		
29			10		2	2411323670	COLLAR		2		
30			11		2	2411323670	COLLAR		2		

### Important !

It is able to automatically enter specified component substance of JIS material related to metal and plating. (Plating is the industry's standard value.) The material whose composition is assumed to be '0.1% or more' is not registered even it is a JIS material. Therefore, entry method is the same as the conventional method.

**Notice !** Do not automatically enter the data of custom-made component of your own company (such as the change in tolerance or the addition of component). In such a case, please enter the data of your company.

**Reference:** Material with the specified component data will be registered to IMDS in order to link data globally to systems such as IMDS.

Automatically enter COLLAR 24113-23670 that uses JIS specified material, SECC. Select 'Material name' in 'Item No.13' in the row 32 to enter material.

14	Item No.	1	10	11	13
15					
16	Row copy				
17	Row deletion				
18	Item	SEQ No	Weight [g/part]	Quantity [upper part]	Material name
19			Auto adjustment		Select
20	Data type	Number	Number	Number	ASCII characters
21	number of digits (integer number)	5	9	3	40
22	number of digits (decimal points)	0	6	0	0
23					
24		1			
25		2	40	1	
26		3	22	1	
27		4	4.2	4	
28		5	8.8	2	
29		6	3.2	2	
30		7		2	
31		8		2	

When pressing 'Select' button beneath 'Material name' 'Select material' window appears. (When selecting for the first time, it may take about a minute.)

Select material

Please enter search criteria and click OK button.

Material name(EN)

Material name(JP)

Norms/Standards

Material-No.

Symbol

VDA classification

Search Cancel

In this case, enter 'SPCC' to Material number and press 'Search' button.

Select material

Please enter search criteria and click OK button.

Material name(EN)

Material name(JP)

Norms/Standards

Material-No.

Symbol

VDA classification

Search Cancel

Search result is displayed. When multiple results are returned, select the appropriate one. This time, however, as only one result is returned, click 'OK'.

Select material

Please enter search criteria and click OK button.

Material name(EN)

Material name(JP)

Norms/Standards

Material-No.

Symbol

VDA classification

Search Cancel

Click OK button and the material information is filled.  
Please note that the material information is overwritten if it exists.

1 materials found.

Material name(EN)	Material name(JP)	Norms/Standards	Material-No.	Symbol	VDA classification	IMDS node ID
Steel SPCC	冷間圧延鋼板	JIS G3141	SPCC		1.1.1	671590420

Caution ! In the case of the material whose component substance is registered, ID is displayed in Node ID [Material]

Preview OK Cancel

**Information :** When searching 'Material name (English)' with the key word 'Steel', too many results might be returned to find the right choice. With the key word 'Steel SP', search result can be obtained efficiently.

Based on this result, material standard, material number, VDA classification code, substance and others are automatically entered.

**Row is automatically copied as many as the number of component substances.**

6	G121E0001		2	2411323670	COLLAR		3.2	2
7	G121E0001		2	2411323670	COLLAR			2
8	G121E0001		2	2411323670	COLLAR			2
9	G121E0001		2	2411323670	COLLAR			2
10	G121E0001		2	2411323670	COLLAR			2

Material standard, material number, VDA classification code and substance are automatically entered.

16	17	18	19
<u>Norms/Standards</u>	<u>Material number (Metal or other than plastics or rubber materials)</u>	<u>Material symbol (plastics or rubber)</u>	<u>VDA Classification n</u>
JISG3141	SPOC		1.1.1
JISG3141	SPOC		1.1.1
JISG3141	SPOC		1.1.1
JISG3141	SPOC		1.1.1
JISG3141	SPOC		1.1.1

20	23	24	25	26
SUBSTANCE				
<u>Substance count</u>	<u>Chemical presence type</u> <input type="button" value="Select"/>	<u>Substance code (CAS No.)</u> <input type="button" value="Select"/>	<u>Substance name</u>	<u>Portion</u>
1		7440-44-0	Carbon	0.075
2		7439-96-5	Manganese	0.5
3		7723-14-0	Phosphorus	0.050
4		7704-34-9	Sulphur	0.0175
5		7439-89-6	Iron	99.3575

42	43	44	45	46	47
JAPIA OPTIONS					
<u>Substance portion (Minimum)</u>	<u>Substance portion (Maximum)</u>	<u>Substance portion (Rest)</u>	<u>IMDS node ID (part)</u>	<u>IMDS node ID (material)</u>	<u>IMDS node ID (substance)</u>
0	0.15			671590420	1995
0	1.0				2301
0	0.100				2835
0	0.035				3065
		1			1762

### Important !

#### Notice :

- i) When changing the result of automatic entry, Node ID 'Material' is automatically deleted in the error check.
- ii) For most materials, the shape symbol, and heat process symbol are registered with abbreviation in Material number and material symbol. Therefore, when entering a material symbol instructed in drawings as it is, it may cause an error. To avoid such an error, please click Material name Select button. (e.g.: In search result, a material with '@' or '\$' in its material code or material symbol is returned. – C1100@).  
'\$' shows the material that must enter appropriate letters in '\$' while '@' shows the material that must either be eliminated or enter appropriate letters such as shape symbol of metal (B: Bar, P: Plate, etc.) Also, the information of plastics fillers (FG35, MD70, etc.) is entered.
- iii) Please consult with your requestor when it is impossible to search.  
Especially, with regard to the material standard starting with 'JAMA' such as 'JAMAH4444', use such a standard only when there isn't any applicable public standard.

#### Information :

- i) Document that explains the automatic entry of materials with public standard among the materials included in this revision, and the codes or symbols of such materials are released. Contents of changes from the conventional method are also included.
  - Explanation of the External List
  - Summary of the JAMA/JAPIA Standard Material Datasheet version upgrade
- ii) In the External list, JIS materials expected to be used in the automobile are covered. In addition, when revising the JAMA sheet, the External list will be also revised. Therefore, JIS revision will be followed up. Every time a major revision is made on JIS, or a new critical JIS is issued, the External list might be revised. Therefore, please check and use the last External list  
For the request for the additional External list, please contact your Requestor or JAPIA.

#### Reminder and Request

The data in this document is prepared only for the purpose of supporting the entry of JIS material data. JAPIA does not guarantee the data. If you receive an instruction for VDA classification from your requestor, please consult with your requestor.

Also, as this data is prepared only for the investigation with the JAMA sheet, it is prohibited to use the data for other purposes than investigation.

Similarly, continue search and select Zinc plating, and Chromate process as well. Click the following cell to search Zinc plating.

(2) Investigation result of Material

Item No.	1	7	8	9	10	11	13
	COMPONENT PARTS						
	SEQ. No.	Part Structure	Part Number	Part name	Weight (g/part)	Quantity (upper part)	Material name
					Auto adjustment		Select
1	1						
2	2	2410123670	PLATE SUB-ASSY		40	1	
3	3	2411123670	PLATE		22	1	
4	3	9422523670	NUT WELD		4.2	4	
5	3		WELDING		1.0	1	
6	3		ZINC PLATING		0.19	1	
7	3		CHROMATE PLATING		0.02	1	
8	2	2411223670	COLLAR		98	2	
9	2	2411323670	COLLAR		3.2	2	Steel SPOC
10	2	2411323670	COLLAR			2	Steel SPOC
11	2	2411323670	COLLAR			2	Steel SPOC
12	2	2411323670	COLLAR			2	Steel SPOC
13	2	2411323670	COLLAR			2	Steel SPOC
14	2	2411323670	COLLAR			2	Steel SPOC
15	2	2411323670	COLLAR			2	Steel SPOC

Search 'Zinc plating' in 'Select material' screen (Search with the material name 'zinc plating') and select Electrolyte Zinc Plating with public standard.

Please enter search criteria and click OK button.

Material name(EN)  Material-No.

Material name(JP)  Symbol

Norms/Standards  VDA classification

Click OK button and the material information is filled.  
Please note that the material information is overwritten if it exists.

46 materials found.

Material name(EN)	Material name(JP)	Norms/Standard	Material-No.	Symbol	VDA classification	IMDS node ID
Electroless Zinc Plating	-	JAMAH4444	ELp-Zn		3.3	73281537
Electrolytic Zinc Plating	-	JISH610	Ep-Zn		3.3	73281553
Electrolytic Tin-Zinc Plating	-	JAMAH4444	Ep-Sn-Zn		4.2	73281552
Zinc Plating	-	ABS\$		@	3.3	
Zinc Plating	-	ASIS\$		@	3.3	
Zinc Plating	-	API\$		@	3.3	
Zinc Plating	-	AS/NZS\$		@	3.3	
Zinc Plating	-	ASME\$		@	3.3	
Zinc Plating	-	ASNS\$		@	3.3	
Zinc Plating	-	ASTM\$		@	3.3	
Zinc Plating	-	BS\$		@	3.3	
Zinc Plating	-	CSN\$		@	3.3	
Zinc Plating	-	DIN\$		@	3.3	
Zinc Plating	-	DIN EN\$		@	3.3	

When clicking 'Preview', it is possible to check the details of materials selected in the Search result screen.

In the Search result screen, it is sometimes impossible to display the entire material name due to the limitation on the number of letters displayed. In the preview screen, however, it is possible to display the letters that weren't displayed to check the details.

Select material

Material information details

Material name(EN)

Electrolytic Zinc Plating

Material name(JP)

-

Norms/Standards

JISH0610

Material-No.

Ep-Zn

Symbol

VDA classification

33

IMDS node ID

73281553

OK

Cancel

When clicking 'OK' button in the 'Select material (Preview)' screen, the value is reflected in the Entry sheet.

\* It is the same operation as when selecting search result in the 'Select material' screen, and clicking 'OK' button.

When clicking 'Cancel' button in the Select material (Preview)' screen, return to the search result in the 'Select material' screen. It is possible to select other search results to preview.

### Notice !

If rows are not copied as many as the number of materials, the data is not copied automatically as shown below. Therefore manual entry or copy is required.

In case the row is not copied in accordance with the number of materials

Item No.	1	7	8	9	10	11	13
	SEQ No.	Part Structure	Part Number	Part name	Weight (g/part)	Quantity (upper part)	Material name
					Auto adjustment		Select
1	1			PLATE SUB-ASSY	40	1	
2	2	2410132670		PLATE	22	1	
3	3	2411132670		NUT, WELD	42	4	
4	3	9422523670		WELDING	1.0	1	
5	3			ZINC PLATING	0.18	1	
6	3			CHROMATE PLATING	0.02	1	
7	2	2411223670		COLLAR	88	2	
8	2	2411323670		COLLAR	32	2	Steel SPCC
9	2	2411323670		COLLAR		2	Steel SPCC
10	2	2411323670		COLLAR		2	Steel SPCC
11	2	2411323670		COLLAR		2	Steel SPCC
12	2	2411323670		COLLAR		2	Steel SPCC
13							
14							Electrolytic Zinc Plating
15							Electrolytic Zinc Plating

Next, search Chromate treatment. Click the following cell before searching the same as in the case of searching Zinc plating.

Item No.	1	7	8	9	10	11	13
Row copy	SEQ No	Part Structure	Part Number	Part name	Weight [g/part]	Quantity [upper part]	Material name
Row deletion	Item				Auto adjustment		Select
1	1						
2	2	2410123670	PLATE SUB-ASSY		40	1	
3	3	2411123670	PLATE		22	1	
4	3	9422523670	NUT WELD		42	4	
5	3		WELDING		1.0	1	
6	3		ZINC PLATING		0.18	1	
7	3		CHROMATE PLATING		0.02	1	
8	2	2411223670	COLLAR		8.8	2	
9	2	2411323670	COLLAR		9.2	2	Steel SPCC
10	2	2411323670	COLLAR			2	Steel SPCC
11	2	2411323670	COLLAR			2	Steel SPCC
12	2	2411323670	COLLAR			2	Steel SPCC
13	2	2411323670	COLLAR			2	Steel SPCC
14	2	2411323670	COLLAR			2	Electrolytic Zinc Plating
15	2	2411323670	COLLAR			2	Electrolytic Zinc Plating
16	2	2411323670	COLLAR			2	Electrolytic Zinc Plating

Search Chromate treatment in the Select material screen (Search with a part of the Material name 'passivation') and select 'passivation black for Zn/Zn alloy plating '. When the top coat for preventing rust with Trivalent Chrome is covered, add materials (Copy the row and select the material of the topcoat).

### Search screen for Chromate Treatment

Please enter search criteria and click OK button.

Material name(EN)

Material name(JP)

Norms/Standards

Material-No.

Symbol

VDA classification

Click OK button and the material information is filled.

Please note that the material

**Component substances are displayed, which are the industry's standard values.**

9 materials found.

Material name(EN)	Material name(JP)	Norms/Standard	Material-No.	Symbol	VDA classification	IMDS node ID
Passivation clear/yellow for Zn/Zn alloy plating	-	JAMAHCRF	JAMAHCRF-TR-		73	
Passivation black for Zn/Zn alloy plating	-	JAMAHCRF	JAMAHCRF-TR-		73	110559599
Chromium-free Passivation for Zn/Zn alloy plating	-	JAMAHCRF	JAMAHCRF-FR-		73	
Trivalent Chromium Passivation for Zn Die casting	-	JAMAHCRF	JAMAHCRF-TR-		73	
Chromium-free Passivation for Zn Die castings	-	JAMAHCRF	JAMAHCRF-FR-		73	
Trivalent Chromium Passivation for Al/Al alloy	-	JAMAHCRF	JAMAHCRF-TR-		73	
Chromium-free Passivation for Al/Al alloy	-	JAMAHCRF	JAMAHCRF-FR-		73	
Trivalent Chromium Passivation for Mg/Mg alloy	-	JAMAHCRF	JAMAHCRF-TR-		73	
Chromium-free Passivation for Mg/Mg alloy	-	JAMAHCRF	JAMAHCRF-FR-		73	



The following is the result based on the above. When there're component substances, it is able to reduce the time to enter data.

Item No.	1	9	10	11	13
		COMPONENT PARTS			
	SED No	Part name	Weight [g/part]	Quantity [Upper part]	Material name
			Auto adjustment		Select
1					
2		PLATE SUB-ASSY	40	1	
3		PLATE	22	1	
4		NUT, WELD	4.2	4	
5		WELDING	1.0	1	
6		ZINC PLATING	0.18	1	
7		CHROMATE PLATING	0.02	1	
8		COLLAR	8.8	2	
9		COLLAR	3.2	2	Steel SPOC
10		COLLAR		2	Steel SPOC
11		COLLAR		2	Steel SPOC
12		COLLAR		2	Steel SPOC
13					Steel SPOC
14					Electrolytic Zinc Plating
15					Electrolytic Zinc Plating
16					Passivation black for Zn/Zn alloy plating
17					Passivation black for Zn/Zn alloy plating
18					Passivation black for Zn/Zn alloy plating
19					Passivation black for Zn/Zn alloy plating
20					Passivation black for Zn/Zn alloy plating
21					Passivation black for Zn/Zn alloy plating

Result after the automatic entry of materials

16	17	18	19	20	23	24	25	26
Norms/Standards	Material number (Metal or other than plastics or rubber material)	Material symbol (plastics or rubber)	YDA Classification	Substance count	Chemical presence type	Substance code (GAS No.1)	Substance name	Portion
					Select	Select		
JISG3141	SPOC		1.1.1	1		7440-44-0	Carbon	0.075
JISG3141	SPOC		1.1.1	2		7439-96-5	Manganese	0.5
JISG3141	SPOC		1.1.1	3		7732-14-0	Phosphorus	0.060
JISG3141	SPOC		1.1.1	4		7704-34-9	Sulphur	0.0175
JISG3141	SPOC		1.1.1	5		7439-63-6	Iron	39.3575
JISH6610	Ep-Zn		3.2	1		7440-66-6	Zinc (metal)	39.375
JISH6610	Ep-Zn		3.2				Misc. not to declare system	0.25
JAMAHDRF	JAMAHDRF-TR-ZNPLB		7.3	1		1308-38-9	Chromium(III)oxide	1.05
JAMAHDRF	JAMAHDRF-TR-ZNPLB		7.3	2		1308-14-1	Chromium(III)-hydroxide	5.5
JAMAHDRF	JAMAHDRF-TR-ZNPLB		7.3	3		7732-18-5	Water	1.0
JAMAHDRF	JAMAHDRF-TR-ZNPLB		7.3	4		59178-46-0	Dichromium tris(hydrogen phosph	53
JAMAHDRF	JAMAHDRF-TR-ZNPLB		7.3	5		20427-58-1	Zinc-hydroxide	20
JAMAHDRF	JAMAHDRF-TR-ZNPLB		7.3			system	Misc. not to declare	1

42	43	44	45	46	47
Substance portion (Minimum)	Substance portion (Maximum)	Substance portion (Rest)	INDS node ID (part)	INDS node ID (material)	INDS node ID (substance)
0	0.15			671530420	1995
0	1.0				2301
0	0.100				2835
0	0.035				3065
		1			1762
		1		73281553	3281499
0	0.5				9999
		1		110659599	1350
4.5	6.5				29545
9	11				3371
50	56				50631410
18	22				4641583
0	2				9999

Font and color of the substance code (24) and substance name (25) changes depending on the value of declarable flag (D), prohibited flag (P) and SVHC flag.

D : Brown

D/P : Purple

P : Red

SVHC : Italic font

With the above operations, the automatic entry of items required to enter for the materials related to 24113-23670 COLLAR is completed.

Next, enter 'Weight'. Enter the value reported from material makers or plating providers to Zinc plating weight or Chromate treatment weight. (The screen shot of the result after entering is omitted.)

### Result after material weight is entered

Item No.	1	13	14	15	16	17	18
	SEQ. No	Material name	Trade name	Weight [g/component part]	Norms/Standards	Material number (Metal or other than plastics or rubber materials)	Material sym (plastics or n
		Select		Round off			
6							
7							
8							
9		Steel SPCC		3.1	JISG3141	SPCC	
10		Steel SPCC			JISG3141	SPCC	
11		Steel SPCC			JISG3141	SPCC	
12		Steel SPCC			JISG3141	SPCC	
13		Steel SPCC			JISG3141	SPCC	
14		Electrolytic Zinc Plating		0.09	JISH9610	Ep-Zn	
15		Electrolytic Zinc Plating			JISH9610	Ep-Zn	
16		Passivation black for Zn/Zn alloy plating		0.01	JAMAHCRF	JAMAHCRF-TR-ZNPL	
17		Passivation black for Zn/Zn alloy plating			JAMAHCRF	JAMAHCRF-TR-ZNPL	
18		Passivation black for Zn/Zn alloy plating			JAMAHCRF	JAMAHCRF-TR-ZNPL	
19		Passivation black for Zn/Zn alloy plating			JAMAHCRF	JAMAHCRF-TR-ZNPL	
20		Passivation black for Zn/Zn alloy plating			JAMAHCRF	JAMAHCRF-TR-ZNPL	
21		Passivation black for Zn/Zn alloy plating			JAMAHCRF	JAMAHCRF-TR-ZNPL	

### Notice !

Under the regulation of chemical substances such as the End of Life Vehicles Directive (EU-ELV), 'the homogeneous material' is specified as a basic unit to evaluate the density of environmental load substances. Therefore, Zinc plating with chromate film must be separated into zinc plating and conversion coating such as chromate film. Zinc plating steel is not considered as homogeneous material.

Similarly, conversion treatment coator paint coat must be separated as well.

This entry method is the de fact standard recommended by IMDS (International Material Data System) that world automobile makers are registering to.

### Information :

Depending on the raw material Zinc, some Hot-dip plating exceeds the limited value of Lead or Cadmium, which are the environmental load substances. Also, some Non-electrolytic plating shows that an environmental load substance of enriched bath stabilizer is deposited to the plating, or 'activating agent', which is the prior process of plating, is coated over the plating. Therefore, please use the reliable data provided by a surface treatment provider.

Next, enter 'Material name' of part. As 24112-23670 COLLAR is the homogeneous Plastics, it isn't necessary to copy the row. Therefore, select the following cell and click 'Select' button.

14	Item No.	1	9	10	11	13
15			COMPONENT PARTS			
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

24112-23670 COLLAR is 35% of Fiberglass reinforced polypropylene. Therefore, enter PP to search. When searching for Plastics / Rubber, it is convenient to search with Material symbol as it helps to narrow down choices.

Select material

Please enter search criteria and click OK button.

Material name(EN)

Material name(JP)

Norms/Standards

Material-No.

Symbol

VDA classification

Search

Cancel

**Information :** Component substance table is not prepared for Plastics / Rubber.

Select material

Please enter search criteria and click OK button.

Material name(EN)

Material name(JP)

Norms/Standards

Material-No.

Symbol

VDA classification

Search

Cancel

Click OK button and the material information is filled.

Please note that the material information is overwritten if it exists.

29 materials found.

Material name(EN)

Material name(JP)

Norms/Standards

Material-No.

Symbol

VDA classification

IMDS node ID

Plastics PP (Filled)

Plastics PP-E (Filled)

Plastics PP-HI (Filled)

Plastics PPE (Filled)

Plastics PPOX (Filled)

Plastics PPS (Filled)

Plastics PPSU (Filled)

Plastics PP alloy (Filled)

Plastics PP-E alloy (Filled)

Plastics PP-HI alloy (Filled)

Plastics PPE alloy (Filled)

Plastics PPOX alloy (Filled)

Plastics PPS alloy (Filled)

Plastics PPSU alloy (Filled)

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

ISO1043

PP-\$

PP-E-\$

PP-HI-\$

PPE-\$

PPOX-\$

PPS-\$

PPSU-\$

PP+\$-\$

PP-E+\$-\$

PP-HI+\$-\$

PPE+\$-\$

PPOX+\$-\$

PPS+\$-\$

PPSU+\$-\$

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

5.1.a

Preview

OK

Cancel

'\$' in 'PP-\$' in the Material symbol found in the Search result is replaced with the information of Plastics filler in accordance with ISO 1043. As this material is 35% Fiberglass reinforced material, it is entered as 'PP-GF35'.

When it is Thermoplastics resin that does not contain Fillers such as Fiberglass, you must select VDA classification '5.1.b' (Thermoplastics resin that does not contain Filler), not '5.1.a' (Thermoplastics resin that contains Filler). The difference can be easily found from Material name (English name).

Next, enter 'Weight (8.8g)'. ( The screen shot of the result after entering is omitted. )

**Notice ! Error is checked both with 'VDA classification' and 'Material symbol' with the distinction of 'Filled' or 'Non-filled'. Please check 'VDA classification'.**

**Caution ! Enter in half-size Ascii characters! If entering a blank, it causes an error. If entering GF35 without '35', it does not cause an error. Still please do not forget to enter it as it is the necessary data when entering substances.**

**Information :** Go to the following page to obtain 'VDA classification'

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

16		17		18		PP-\$ → PP-GF35 entry result
Norms/Standards	Material number (Metal or other than plastics or rubber materials)	Material symbol (plastics or rubber)	VDA Classification			
ISO1043		PP-GF35	5.1.a			

**Information :** There are two cases; one is that it causes an error when '\$' is not replaced with the material such as 'PP-\$' while the other is that it does not cause an error even the material is not entered to '@' like 'A1100@'.

Next, the method to enter the materials used for 24101-23670 Sub-assembly is explained. In the Material name of child-part PLATE or NUT, WELD, enter the material of each part, SPCC or S25C if such parts have part Nos. Here again, with the automatic entry function, it is easy to enter. (The screen shots of Component substance and Weight are omitted.)



14	15	Item No.	1	7	8	9	10	11	13
			SEQ No	Part Structure	Part Number	Part name	Weight [g/part]	Quantity [upper part]	Material name
							Auto adjustment		Select
23	24	25	1	1	2410123670	PLATE SUB-ASSY	40	1	
26	27	28	2	2	2411123670	PLATE	22	1	Steel SPCC
29	30	31	3	3	2411123670	PLATE		1	Steel SPCC
32	33	34	4	4	2411123670	PLATE		1	Steel SPCC
35	36	37	5	5	2411123670	PLATE		1	Steel SPCC
38	39	40	6	6	2411123670	PLATE		1	Steel SPCC
41	42	43	7	7	2411123670	PLATE		1	Steel SPCC
44	45	46	8	8	9422523670	NUT, WELD	4.2	4	Steel S25C
47	48	49	9	9	9422523670	NUT, WELD		4	Steel S25C
50	51	52	10	10	9422523670	NUT, WELD		4	Steel S25C
53	54	55	11	11	9422523670	NUT, WELD		4	Steel S25C
56	57	58	12	12	9422523670	NUT, WELD		4	Steel S25C
59	60	61	13	13	9422523670	NUT, WELD		4	Steel S25C
62	63	64	14	14	9422523670	NUT, WELD		4	Steel S25C
65	66	67	15	15	9422523670	NUT, WELD		4	Steel S25C
68	69	70	16	16	9422523670	NUT, WELD		4	Steel S25C
71	72	73	17	17	3	WELDING	1.0	1	Steel SWY11
74	75	76	18	18	3	ZINC PLATING	0.18	1	Steel SWY11
77	78	79	19	19	3	CHROMATE PLATING	0.02	1	Steel SWY11
80	81	82	20	20	2411223670	COLLAR	8.8	2	Plastics PP (Filled)
83	84	85	21	21	2411323670	COLLAR	3.2	2	Steel SPCC
86	87	88	22	22	2411323670	COLLAR		2	Steel SPCC

Next, enter the materials of dummy component parts of welding rod, zinc plating, and chromate plating, which were setup on P.14.

With the automatic entry function, it is easy to enter welding rod (SWY11), zinc plating, and chromate treatment (trivalent chromate black).

(The screen shot of Material and substance is omitted)

**This is the section where Welding bar, Chromate, Zinc plating are entered.**

14	15	Item No.	1	7	8	9	10	11	13
			SEQ No	Part Structure	Part Number	Part name	Weight [g/part]	Quantity [upper part]	Material name
							Auto adjustment		Select
35	36	37	12	3	9422523670	NUT, WELD		4	Steel S25C
38	39	40	13	3	9422523670	NUT, WELD		4	Steel S25C
41	42	43	14	3	9422523670	NUT, WELD		4	Steel S25C
44	45	46	15	3	9422523670	NUT, WELD		4	Steel S25C
47	48	49	16	3	9422523670	NUT, WELD		4	Steel S25C
50	51	52	17	3	3	WELDING	1.0	1	Steel SWY11
53	54	55	18	3	3	ZINC PLATING	0.18	1	Steel SWY11
56	57	58	19	3	3	CHROMATE PLATING	0.02	1	Steel SWY11
59	60	61	20	2	2411223670	COLLAR	8.8	2	Plastics PP (Filled)
62	63	64	21	2	2411323670	COLLAR	3.2	2	Steel SPCC
65	66	67	22	2	2411323670	COLLAR		2	Steel SPCC

Enter 'Weight' of Welding bar (1g), Chromate (0.02g), and Zinc plating (0.18g) to complete the entry to 'Material'.

**Result after the automatic entry of Welding bar, Chromate treatment, Zinc plating.**

14	15	Item No.	1	7	8	9	10	11	13
			SEQ No	Part Structure	Part Number	Part name	Weight [g/part]	Quantity [upper part]	Material name
							Auto adjustment		Select
35	36	37	12	3	9422523670	NUT, WELD		4	Steel S25C
38	39	40	13	3	9422523670	NUT, WELD		4	Steel S25C
41	42	43	14	3	9422523670	NUT, WELD		4	Steel S25C
44	45	46	15	3	9422523670	NUT, WELD		4	Steel S25C
47	48	49	16	3	9422523670	NUT, WELD		4	Steel S25C
50	51	52	17	3	3	WELDING	1.0	1	Steel SWY11
53	54	55	18	3	3	ZINC PLATING	0.18	1	Steel SWY11
56	57	58	19	3	3	CHROMATE PLATING	0.02	1	Steel SWY11
59	60	61	20	2	2411223670	COLLAR	8.8	2	Plastics PP (Filled)
62	63	64	21	2	2411323670	COLLAR	3.2	2	Steel SPCC
65	66	67	22	2	2411323670	COLLAR		2	Steel SPCC

**Information :** At this phase, when pressing the Automatic adjustment button in 'Component parts weight', it is changed to automatic calculation to prevent errors in the error check. Similarly, when pressing the Automatic adjustment button in 'Delivery part weight', it is also able to compare with the Drawing weight value.

**Information :** For 'Operational manual (Japanese only)', refer to → P.22, 29

JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

**Important !**

**Notice !**

- i) Please enter the search result obtained after pressing 'Select' button to Material name, Material number, and Material symbols.
- ii) When searching, please enter Japanese in full size and alphanumerics in half-size Ascii characters.
- iii) In the list, the materials without public standards that requestors require are included and described as 'JAMA\*\*\*\*\*'. (Please use Material standard starting with 'JAMA' such as 'JAMAH4444' only when there's no applicable public standard). If it is still impossible to enter, please consult your requestor.

#### (4) Substance used for each material (Substance table)

Next, enter substance information used for each material. As previously described, the point here is 'It is the number of substances that dictates the number of rows to be entered.'

Item No.	Item Name	Requirement / Option
20	Substance count serial number	<b>Required</b> (When entering a substance. However, when substance code is system, it should be left blank.)
23	Chemical presence type	<b>Required</b> (When a substance is the process chemical and the substance portion exceeds 0.1%.)
24	Substance code	<b>Required</b> (When entering a substance)
25	Substance name	<b>Required</b> (When entering a substance)
26	Substance portion	<b>Required</b> (When entering a substance)

In the case of 'SPCC', using the information of JIS or MILL sheet, it is also possible to enter the information as exemplified as follows.

Substance (substance name)	Substance portion (%)
Iron	Rest
Carbon	0.15
Manganese	0.6
Phosphorus	0.1
Iodine	0.05
Total	100.0

Enter the data without tolerances such as an inspection data to 'Substance portion'. Please use 'Substance portion (Minimum)', 'Substance portion (Maximum)' 'Substance portion (Rest)' in JAPIA Options to enter the data with tolerances as the data is automatically entered to 'Substance portion' in the error check.

#### Caution!

Only in the case of VDA material classification 5.x or 6.x, when the substance portion per material is 100% (Fixed value) or 1 (Rest), "Warning" is displayed in the error check. This is the function added for preventing the entry miss of additives of plastics or rubbers. It is necessary to judge whether modification is necessary or not.

In the case of this example, as of now, the data of all materials excluding ‘PP-GF35’ are automatically entered with automatic entry function.

17	18	19	20	23	24	25	26
			SUBSTANCE				
Material number (Metal or other than plastics or rubber materials)	Material symbol (plastics or rubber)	VDA Classificatio n	Substance count	Chemical presence type  Select	Substance code (CAS No.)  Select	Substance name	Portion
JAMAHCRF-TR-ZNPL		7.3	3		7732-18-5	Water	10
JAMAHCRF-TR-ZNPL		7.3	4		59178-46-0	Dichromium tris(hydrogen phosph	53
JAMAHCRF-TR-ZNPL		7.3	5		20427-58-1	Zinc-hydroxide	20
JAMAHCRF-TR-ZNPL		7.3			system	Misc. not to declare	1
ISPC	PP-GF35	5.1.a	1				
ISPC		1.1.1	1		7440-44-0	Carbon	0.075
ISPC		1.1.1	2		7439-96-5	Manganese	0.30

To simplify the explanation, the following substances are used as examples. Please ask plastics makers for Plasticizer ‘Phthalate ester’.

Substance (Substance name)	Substance portion(%)
PP	60
Glass fiber	35
Other	5
Total	100

Copy the row of PP-GF35 to make three rows to enter three substances.

17	18	19	20	23	24	25
			SUBSTANCE			
Material number (Metal or other than plastics or rubber materials)	Material symbol (plastics or rubber)	VDA Classificatio n	Substance count	Chemical presence type  Select	Substance code (CAS No.)  Select	Substance name
JAMAHCRF-TR-ZNPL		7.3	3		7732-18-5	Water
JAMAHCRF-TR-ZNPL		7.3	4		59178-46-0	Dichromium tris(hydrogen ph
JAMAHCRF-TR-ZNPL		7.3	5		20427-58-1	Zinc-hydroxide
JAMAHCRF-TR-ZNPL		7.3			system	Misc. not to declare
	PP-GF35	5.1.a	1			
	PP-GF35	5.1.a	2			
	PP-GF35	5.1.a	3			
ISPC		1.1.1	1		7440-44-0	Carbon

Select the cell of ‘Substance code’ to enter PP or GF and click ‘Select’ button.

17	18	19	20	23	24	25
			SUBSTANCE			
Material number (Metal or other than plastics or rubber materials)	Material symbol (plastics or rubber)	VDA Classificatio n	Substance count	Chemical presence type  Select	Substance code (CAS No.)  Select	Substance name
JAMAHCRF-TR-ZNPL		7.3	3		7732-18-5	Water
JAMAHCRF-TR-ZNPL		7.3	4		59178-46-0	Dichromium tris(hydrogen ph
JAMAHCRF-TR-ZNPL		7.3	5		20427-58-1	Zinc-hydroxide
JAMAHCRF-TR-ZNPL		7.3			system	Misc. not to declare
	PP-GF35	5.1.a	1			
	PP-GF35	5.1.a	2			
	PP-GF35	5.1.a	3			
ISPC		1.1.1	1		7440-44-0	Carbon



**Select substance**

Please enter search criteria and click OK button.

Substance Group:

CAS No.:

Node ID:

Substance Name:

Substance Name(JP):

Declarable(D)(GADSL): ☐ Yes ☐ No ☒ N.A.

SVHC: ☐ Yes ☐ No ☒ N.A.

Prohibited(P)(GADSL): ☐ Yes ☐ No ☒ N.A.

Process chemical: ☐ Yes ☐ No ☒ N.A.

Enter 'PP' in the substance name, click 'Search' button, and the following screen appears.

**Select substance**

Please enter search criteria and click OK button.

Substance Group:

CAS No.:

Node ID:

Substance Name:

Substance Name(JP):

Declarable(D)(GADSL): ☐ Yes ☐ No ☒ N.A.

SVHC: ☐ Yes ☐ No ☒ N.A.

Prohibited(P)(GADSL): ☐ Yes ☐ No ☒ N.A.

Process chemical: ☐ Yes ☐ No ☒ N.A.

276 substances found.

CAS No.	Substance Name	Substance Name(JP)	Node ID	declarable (D)	prohibited (P)	SVHC	Process chemical
10380-28-6	Copper hydroxyquinolate	-	909116				
10380-28-6	Copper, bis(8-quinolinolato-N(1)-O(8))	-	909116				
10380-28-6	Oxine-copper	-	909116				
-	Basic Polymer: PP	-	1351222				
-	Plastic: PP	-	1351222				
-	PP	-	1351222				
-	Basic Polymer: PPE	-	1351235				
-	Plastic: PPE	-	1351235				
-	PPE	-	1351235				
-	Basic Polymer: PPS	-	1351244				
-	Plastic: PPS	-	1351244				
-	PPS	-	1351244				
7481-27-8	Copper bis(O,O-diisopropyl) bis(dithiophosphate)	-	1397358				
7481-27-8	Phosphorodithioic acid, O,O-bis(1-methylethyl) ester	-	1397358				

**Information :** If substance codes (CAS) are the same, and Node IDs are the same, they are the same substances. The substances without substance codes (CAS) but with the same Node IDs are also the same substances.

When clicking 'Preview', it is able to check the details of the substance selected in the Search result screen.

In the Search result screen, the entire substance name may not be displayed due to the limitation on the number of letters to be displayed. In the Preview screen, however, it is possible to check the details.

**Select substance**

Substance information details

CAS No. -

Substance Name Basic Polymer: PP

Substance Name(JP) -

Node ID 1351222

declarable(D)  
prohibited(P)  
SVHC  
Process chemical

OK Cancel

When clicking 'OK' in 'Select substance (Preview)' screen, the value is reflected in the Entry sheet.

\* It is the same operation as when selecting the Search result in the 'Select substance' screen and clicking 'OK' button.

When clicking 'Cancel' button in 'Select substance (Preview)' screen, it returns to the search result in 'Select substance' screen. It is possible to select other search results and preview the result again.

Glass fiber is also searched in the same way as follows.

**Select substance**

Please enter search criteria and click OK button.

Substance Group

CAS No.

Node ID

Substance Name GF

Substance Name(JP)

GADSL classification

Declarable(D)/GADSL ☐ Yes ☐ No ☒ N.A.

SVHC ☐ Yes ☐ No ☒ N.A.

Prohibited(P)/GADSL ☐ Yes ☐ No ☒ N.A.

Process chemical ☐ Yes ☐ No ☒ N.A.

Search Cancel

3 substances found.

CAS No.	Substance Name	Substance Name(JP)	Node ID	declarable(D)	prohibited(P)	SVHC	Process chemical
-	GF-Fiber	-	22374				
-	GF-Fibre	-	22374				
7783-40-6	Magnesium fluoride (MgF2)	-	4453749				

Preview OK Cancel



In the case of ‘Other’ substance, enter ‘misc’ in the name of substance.

**Select substance**

Please enter search criteria and click OK button.

Substance Group:

CAS No.:

Node ID:

Substance Name:

Substance Name(JP):

GADSL classification

Declarable(D)(GADSL): ☐ Yes ☐ No ☒ N.A.

SVHC: ☐ Yes ☐ No ☒ N.A.

Prohibited(P)(GADSL): ☐ Yes ☐ No ☒ N.A.

Process chemical: ☐ Yes ☐ No ☒ N.A.

3 substances found.

CAS No.	Substance Name	Substance Name(JP)	Node ID	declarable(D)	prohibited(P)	SVHC	Process chemical
system	Misc., not to declare	-	9999				
system	Miscellaneous	-	9999				
-	Thermoplastisches Elastomer: Dynamisch vulkanisiert	-	5270383				

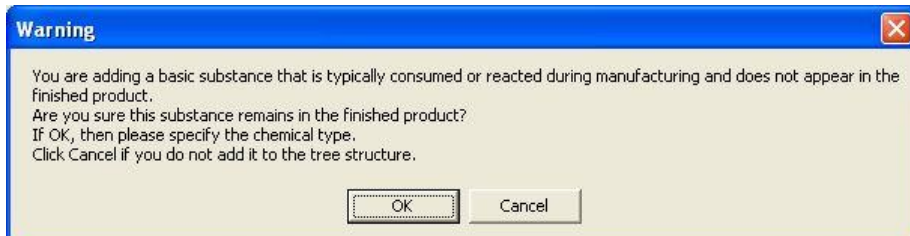
Next, enter the ‘Substance portion’.

The result of entering the data of three substances is shown below.

SUBSTANCE				
Substance count	Chemical presence type	Substance code (CAS No.)	Substance name	Portion
	Select	Select		
1		system	Misc., not to declare	1
2		-	Basic Polymer: PP	60
3		-	GF-Fiber	35
4		system	Misc., not to declare	5
5		7440-44-0	Carbon	10075

The following commentary is about 'Presence type of process chemical' although it is not included in this model. In the Substance in product report, only the substance that is included in the finished product must be entered. Therefore, the process chemical used in the manufacturing process should not be entered, which is checked by the system.

When adding the process chemical to materials, a Warning in popup screen appears.



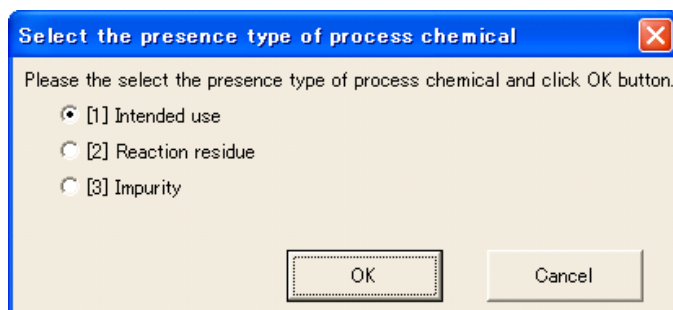
When clicking 'OK' in this screen, the process chemical is entered to the Entry sheet while clicking 'Cancel', the process chemical is not entered and it is returned to the search result screen.

In addition, when the substance portion of process chemical is 0.1% or more, the precise value (1-3) must be entered to 'Presence type of process chemical'.

Select 'Presence type of process chemical' in the row of appropriate process chemical and click 'Select' button.

20	23	24	25	26
Substance count	Chemical presence type Select	Substance code (CAS No.) Select	Substance name	Portion
1		-	Polyacrylate	97
2		108-05-4	Acetic acid ethenyl ester	1
3		79-06-1	Acrylamide	0.01

The screen to select 'Presence type of process chemical' is displayed.



When selecting the appropriate presence type and clicking 'OK', the code is entered to the Entry sheet.

Code	Presence type (English)
1	Intended use
2	Reaction residue
3	Impurity

20	23	24	25	26
SUBSTANCE				
Substance count	Chemical presence type Select	Substance code (CAS No.) Select	Substance name	Portion
1		-	Polyacrylate	97
2	1	108-05-4	Acetic acid ethenyl ester	1
3		79-06-1	Acrylamide	0.01

**Important :** When the substance portion of process chemical is 0.1% or less, it does not cause an error in the error check explained later in this document even without values in ‘Presence type of process chemical’.

Regardless of substance portion of process chemical, if the value in ‘Presence type of process chemical’ is not correct value (1-3), an error occurs in the error check explained later.

**Notice !**

- i) Please enter the information of substance in product in accordance with the instruction from your requestor. Maximum value of ‘Others’ is based on the recommendation by IMDS, which is the international data collection system. When the value is more than 10%, the Warning appears in the error check (Please consult with your requestor).
- ii) Substance subject to the investigation is the substance included in ‘List of substances in product’. Substances are classified into three types; ‘P’ (Prohibit), ‘D’ (Declare) and ‘D/P’. As this list is also updated in a timely manner, please check the latest version. The List of substances in product is same as global GADSL that world automakers are complying with.
- iii) Due to the time lag made at the time of IMDS registration, ‘D’ or ‘P’ sometimes does not match with those in the List of substances in product. ‘D/P’ is judged as ‘P’ or ‘D’ depending on the type of substance/purpose for use or substance portion in accordance with environment rule. These requirements apply only to intended use as a biocide.
- iv) The minimum value (threshold value) of substance portion reported in the list is generally 0.1%. In the case of substance such as Cadmium, however, it is 0.01%. For details, please check GADSL.
- v) Basically, a substance contained in the Candidate List is a substance marked with flag of SVHC.

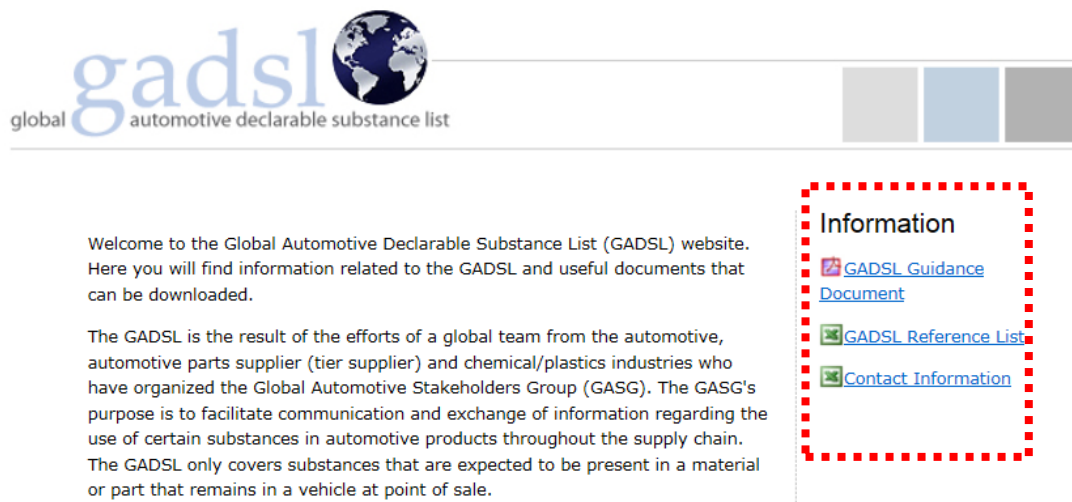
**Information :** Go to the following site to obtain 'List of substances in product'

JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

**Information :** Go to the following site to obtain GADSL:

GADSL(Global Automotive Declarable Substance List) Official Site : <https://www.gadsl.org/>



**Information :** As the List of substances in product is changed in accordance with the revision of environment rule, please check the latest information. Also, GADSL is revised whenever it is necessary. With the revision of GADSL, the List of substances in product by JAPIA is also revised.

## (5) Recycled and Regulated materials and substances (Application table)

For Metals/Plastics/Rubber materials/Modified organic natural materials/Ceramics/glass (VDA classification code is 1.x - 5.x, 7.1, 7.2 ), the information on 'Recyclate' (item No. 28 -31) is required to enter. Enter the data to the first row. For the definition of each item, please refer to the 'Description' sheet in the Data input form.

Result after entering 35% Fiberglass reinforced PP recyclate information						
24	25	26	28	29	30	31
SUBSTANCE			RECYCLATE			
Substance code (CAS No.) <input type="button" value="Select"/>	Substance name	Portion	Content of post industrial recyclate (Minimum)	Content of post industrial recyclate (Maximum)	Content of post consumer recyclate (Minimum)	Content of post consumer recyclate (Maximum)
system	Misc, not to declare	1				
-	Basic Polymer: PP	60	0	0	0	0
-	GF-Fiber	35				
system	Misc, not to declare	5				
7440-44-0	Carbon	0.075				

### Notice !

In accordance with EU-ELV, 'Polymeric part (Item No. 32)' must be indicated when Plastics is 'over 100g' and Rubber, 'over 200g'. As 'Polymeric part (Item No. 32)' is checked along with Material weight for an error, 'Polymeric part (Item No. 32)' is the requirement.

This example shows the SPCC that is not scrap recycled, therefore, enter '0%' to all recyclate information. (In the following screen, Zinc plating is also entered.)

24	25	26	28	29	30	31
SUBSTANCE			RECYCLATE			
Substance code (CAS No.) <input type="button" value="Select"/>	Substance name	Portion	Content of post industrial recyclate (Minimum)	Content of post industrial recyclate (Maximum)	Content of post consumer recyclate (Minimum)	Content of post consumer recyclate (Maximum)
7440-44-0	Carbon	0.075	0	0	0	0
7439-96-5	Manganese	0.5				
7723-14-0	Phosphorus	0.050				
7704-34-9	Sulphur	0.0175				
7439-89-6	Iron	99.3575				
7440-44-0	Carbon	0.25	0	0	0	0
7440-21-3	Silicon	0.25				



Next, enter the data to 'Application code' of the substance that requires such a code.

24	25	26	28	29	30	31	32	34
SUBSTANCE			RECYCLATE					
Substance code (CAS No.) <a href="#">Select</a>	Substance name	Portion	Content of post industrial recycle (Minimum)	Content of post industrial recycle (Maximum)	Content of post consumer recycle (Minimum)	Content of post consumer recycle (Maximum)	Polymeric part(s) marked	Application <a href="#">Select</a>
7704-34-9	Sulphur	0.0175						
7440-47-3	Chromium	0.1						
7440-50-8	Copper	0.15						
7440-02-0	Nickel	0.1						
7439-89-6	Iron	98.6675						
7440-44-0	Carbon	0.045	0	0	0	0		
7440-21-3	Silicon	0.015						

Click the cell of substance that requires the code, and click Select button. When the following screen appears, select 'Not application'.

Select application code

Please select application code.

☐ [32] Component of a surface likely to be routinely touched (eg. handles and buckles), that have a nickel release rate exceeding 0.5mcg/cm2/week.
 ☐ [33] Other application (Surface not routinely touched or nickel release rate < 0.5mcg/cm2/week)
 ☒ [34] Not applicable

OK

Cancel

As a result of selection, '34' is automatically entered.

24	25	26	28	29	30	31	32	34
SUBSTANCE			RECYCLATE					
Substance code (CAS No.) <a href="#">Select</a>	Substance name	Portion	Content of post industrial recycle (Minimum)	Content of post industrial recycle (Maximum)	Content of post consumer recycle (Minimum)	Content of post consumer recycle (Maximum)	Polymeric part(s) marked	Application <a href="#">Select</a>
7704-34-9	Sulphur	0.0175						
7440-47-3	Chromium	0.1						
7440-50-8	Copper	0.15						
7440-02-0	Nickel	0.1						
7439-89-6	Iron	98.6675						
7440-44-0	Carbon	0.045	0	0	0	0		
7440-21-3	Silicon	0.015						

**Information :** Go to the following site to obtain 'Application code'.

It is explained in IMDS Official Site. Please go to "FAQ - Frequently Asked Questions" - "IMDS Ingredients Screen" - "Is there any further explanation as to how to select an Application ID ?".

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

**? Is there any further explanation as to how to select an Application ID?**

Application codes are related to some legal requirements on certain substances or substance groups. The application codes relate to how the material is used in a component (part). Although it might appear that application codes are related to a material, in actuality it is only possible to select an application code when the material is first attached (referenced) by a component. There may other material nodes or semi-component nodes in the path between the material and the component. It is the usage on the component that determines the appropriate application code.

There is a large number of application codes that can be used, but only a few are valid for each circumstance. In order to assist the user, IMDS only presents application codes relevant to the situation. The "possible" application codes depend on: the material classification, the basic substance, and the % of basic substance in the material. If you do not find an expected application code, then either the material classification is incorrect or the % of the basic substance in the material is too high.

The attached file ([downloadable Excel file - valid starting 2011/06/30](#), updated June 2016) indicates which application codes are permissible in each situation. For ease of use, the tabs in the file relates to a specific substance category: Lead, Hexavalent Chromium, Mercury, Cadmium, Nickel and Polycyclic Aromatic Hydrocarbons. The first column of "Applications" worksheet shows all applications with their text applicable to the substance. The following columns show all material classifications. The resulting table shows the valid applications for a substance within a material of the specified classification. Only where an entry appears in the column is the combination of application and material classification valid. If there is an additional percentage value (e.g.  $x \leq 4\%$ ), the application is valid only when the percentage of the substance in the material does not exceed the stated percentage value.



**Notice !**

**i) 'Application' shows the application codes corresponding to EU-ELV ANNEXII.**

**As codes are changed every time EU-ELV is revised, it is necessary to use the latest JAMA sheet in accordance with the revised EU-ELV.**

**ii) Substances that need to enter 'Application code' are Lead, Cadmium, Mercury, Hexagonal chromate, Nickel, Polycyclic aromatic hydrocarbons (PAH), which are the substances regulated in EU-ELV.**

When a substance entered is the Active Substance included in the scope of BPR (The European Biocidal Products Regulation) , enter either “N “ (Not used for Biocidal Purpose) or Product-type to “Biocidal Purpose” in the column 35.

32	34	35	40	41	42
<u>Polymeric part(s) marked</u>	<u>Application</u>  <input type="button" value="Select"/>	<u>Biocidal Purpose</u>  <input type="button" value="Mass Entry"/> <input type="button" value="Select"/>	<u>Component parts quantity unit</u>  <input type="button" value="Select"/>	<u>Requestor material code or Supplied material code</u>	<u>Substance portion (Minimum)</u>
Code of Polymeric marked on component or not	Usage code of substance in regulated in IMDS	Code indicating the biocidal purpose presence and product type in the European Biocidal Products Regulation	Unit of component part Quantity	Material symbol defined by the requestor in the drawings and/or the Standard	Substance portion (Minimum) [%]
supplier	supplier	supplier	supplier	requestor or supplier	supplier

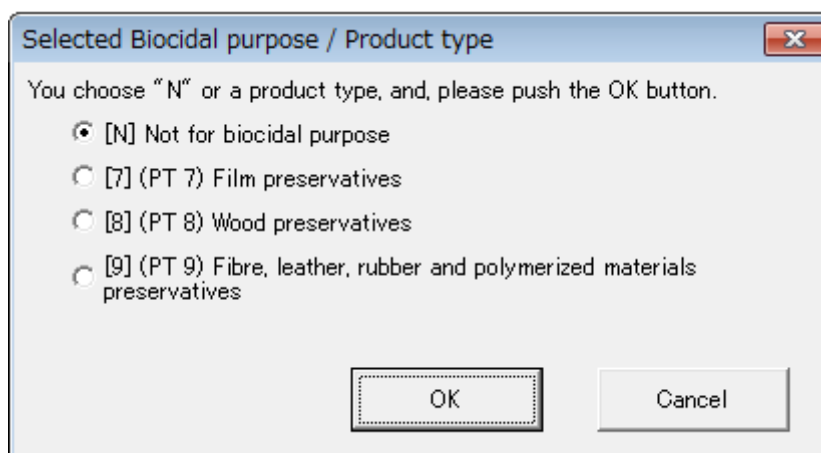
**Information:**

- A substance included in the scope of BPR is called “Active Substance”, which is included in GADSL “Biocidal coatings / biocidal additives, selected”.
- Product-Type is a classification by the application of “Active Substance”. The following three are the product types currently considered to be used for automobile.
  - 7 : Film preservatives
  - 8 : Wood preservatives
  - 9 : Fibre, leather, rubber and polymerized materials preservatives

Place a cursor at the cell to enter “Biocidal Purpose”, and press ‘Select’ button. When the following screen is displayed, select “N” or Product-type.

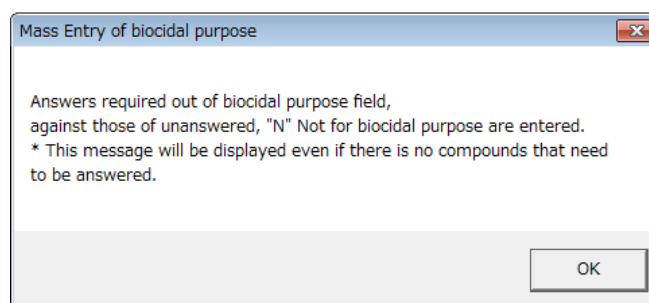
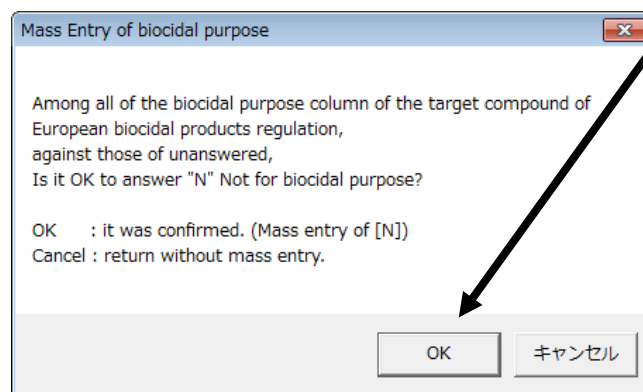
When the location of a cell isn’t correct, or the compound in the line isn’t “Active Substance”, a warning message is displayed.

When “Biocidal Purpose” is not one of “N”, “7”, “8”, or “9”, an error occurs in “Error Check” in JAMA sheet.



In actual operations, there are many “N” cases even though a substance is an “Active Substance”. Therefore, in JAMA sheet, it is possible to enter “N” to all “Biocidal Purpose” cells of “Active substance” at once, when the cells are empty.

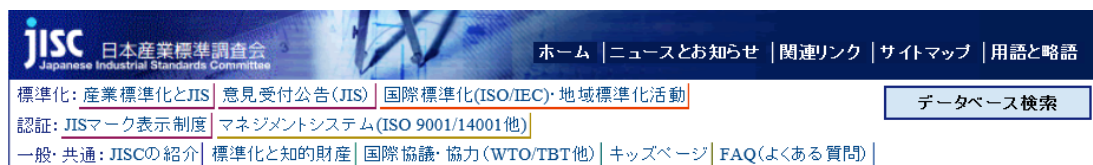
When pressing ‘Mass Entry’ button, the following screen is displayed. When pressing ‘OK’ button, “N” is entered automatically.



## Other references

**Information :** JIS search is available in Japanese Industrial Standards Committee (JISC) Official Site.

<https://www.jisc.go.jp/app/jis/general/GnrJISSearch.html>



The screenshot shows the top section of the JISC website. It includes the JISC logo and name in Japanese and English. A navigation bar contains links: ホーム (Home), ニュースとお知らせ (News and Notice), 関連リンク (Related Links), サイトマップ (Site Map), and 用語と略語 (Terms and Abbreviations). Below this is a menu with categories like 標準化 (Standardization), 産業標準化とJIS (Industrial Standardization and JIS), 意見受付公告 (JIS) (Opinion Acceptance Announcement (JIS)), 国際標準化 (ISO/IEC) (International Standardization (ISO/IEC)), 地域標準化活動 (Regional Standardization Activities), 認証 (Certification), JISマーク表示制度 (JIS Mark Display System), マネジメントシステム (ISO 9001/14001他) (Management System (ISO 9001/14001 etc)), 一般・共通 (General/Shared), JISCの紹介 (Introduction to JISC), 標準化と知的財産 (Standardization and Intellectual Property), 国際協議・協力 (WTO/TBT他) (International Agreement/Cooperation (WTO/TBT etc)), キッズページ (Kids Page), and FAQ (よくある質問) (FAQ (Frequently Asked Questions)). A search button labeled データベース検索 (Database Search) is also visible.

ホーム » データベース検索 » JIS検索

### JIS検索

PS-020-0120

条件を指定し、「一覧表示」ボタンをクリックしてください。

#### JIS規格番号からJISを検索

JIS番号は、半角英数でご入力下さい (アルファベットは大文字)。例 A1234、B5668

前方一致検索が可能です。

参考リンク※ [日本産業規格 \(JIS\) C部門における一部規格の規格番号の切替えについて \(別ウィンドウでリンク\)](#)

JIS

一覧表示

#### JIS規格名称からJISを検索

JIS規格名称 (名称の一部でも可 例: 土木機械)

一覧表示

#### JIS規格に使用されている単語からJISを検索

JIS規格に使用されている単語をキーワードとして検索します。

検索式にはAND検索、OR検索、NOT検索の3種類が可能です。検索式の詳細は[こちら \(別ウィンドウでリンク\)](#)

With this JIS Search, it is able to read JIS in PC screen, however, it is impossible to print it out. In addition, as the substance portion is specified as ‘Maximum’, ‘Tolerance’, ‘Maximum – Minimum’, please follow the instruction from your requestor. (In JAPIA option column, the minimum and maximum values of substances are provided.)

**Notice ! Substances specified in JIS do not necessarily cover all substances included in the ‘List of substances in product’. Please consult with your requestor to decide the substance that needs to be reported.**

**For example : The density of Cadmium included in Brass (e.g. : C3604) is not specified in JIS.**

**Information :** Error check when entering own company's data to JAPIA option columns

(Item No. 42 -44) instead of entering automatically.

It is able to enter the tolerance data to JAPIA option columns, and enter automatically to Substance portion (Item No.26), however, the message 'It is entered automatically by the system.' appears. When checking errors again, this message disappears. Please continue the process.

**Information :** IMDS 7.0 Tolerance Error Check (IMDS 001\*)



Portion: from X% to Y%	Maximum M = Y% - X%
$0 \leq X \leq 7.5$	$M \leq 3$
$7.5 < X \leq 20$	$M \leq 5$
$20 < X \leq 100$	$M \leq 10$

IMDS 001\* : IMDS General Rules and Guidelines

**Information :** Description of substance wildcard

It is explained in IMDS Official Site. Please go to "FAQ - Frequently Asked Questions"- "IMDS Ingredients Screen" - "Is there a description concerning confidentiality handling and confidential substances ?" .

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


**Is there a description concerning confidentiality handling and confidential substances?**


Materials have to be reported in their final state. For example, if using a polymer such as ABS, you do not report the chemicals that are used for polymerizing ABS. You use an ABS pseudo-substance from the system. Similarly, in paints and adhesives, only the "cured" product is to be reported. However, you do need to report all additives like e.g. pigments, flame retardants, and fillers. You can go to Substance Search and select a substance group to see substances in that group. By using pseudo-substances, where applicable, much of the concern about proprietary formulations is laid to rest.

For the confidential substances: Technically, you can use a joker/wildcard as a substitute for highly confidential substances. However, you cannot use a joker/wildcard for any substances that is declarable or prohibited according to GADSL, application relevant, on a Renault list or an SVHC on the REACH candidate list. But every time one of these lists changes you have to check your entries with a joker/wildcard and certify that the joker/wildcard does not replace a substance which now can be found on the above mentioned lists. That's a lot of work.

With this, data entry is completed. Lastly, check the basic information.

(1) Basic information

Item	<a href="#">Automobile manufacturer code</a>	<a href="#">Supplier code</a>	<a href="#">Supplier Name</a>	<a href="#">Due Date</a>	<a href="#">Reply Date</a>
Data type	ASCII characters	ASCII characters	ASCII characters	ASCII characters	ASCII characters
Entered by:	requestor	requestor	requestor	requestor	supplier
	B7371	TICO		20YY/10/30	20YY/10/20

#### 4) Error check

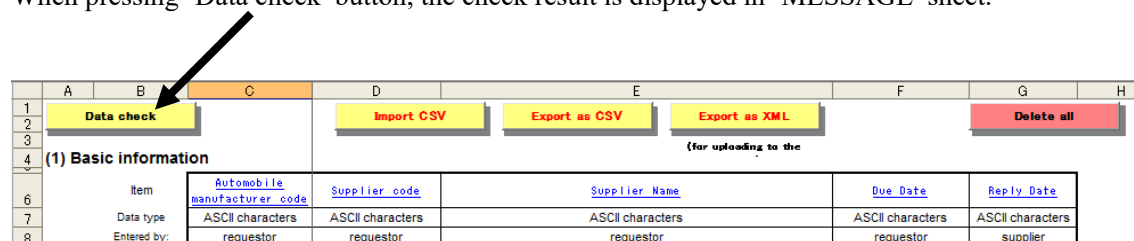
##### Notice !

When executing "Error check", the data that has been already entered might be overwritten automatically due to the function to check the consistency of registered information.

Therefore, operators are asked to backup data, if the operators judge necessary, before executing "Error check".

The same should be done when executing "Error check" after making modifications to errors.

When pressing 'Data check' button, the check result is displayed in 'MESSAGE' sheet.

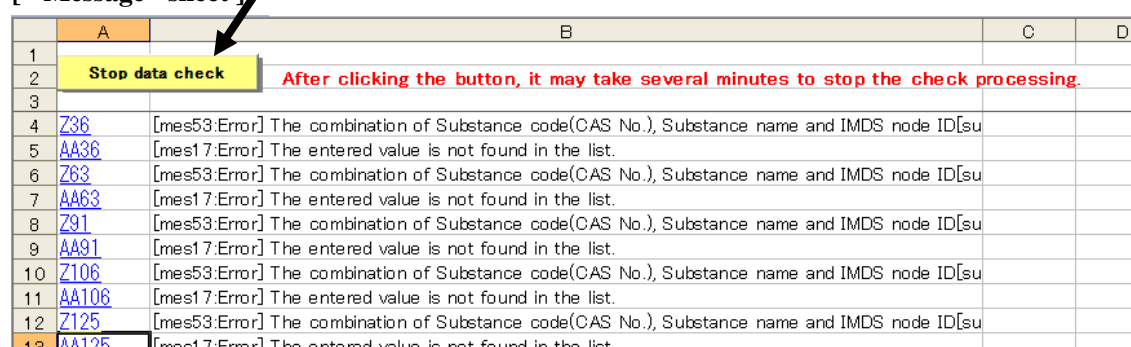


	A	B	C	D	E	F	G	H
1		<b>Data check</b>		<b>Import CSV</b>	<b>Export as CSV</b>	<b>Export as XML</b>		<b>Delete all</b>
2								
3								
4					(for uploading to the			
5								
6		Item	Automobile	Supplier code	Supplier Name	Due Date	Reply Date	
7		Data type	ASCII characters	ASCII characters	ASCII characters	ASCII characters	ASCII characters	
8		Entered by:	requestor	requestor	requestor	requestor	supplier	

By clicking the button 'Stop data check' at the top of the "Message" sheet, you can interrupt the error checking. Click the button when you want to fix some error that is displayed as check results before finish of the error checking.

Depending on the timing of your clicking, it may take several minutes to break the process, however.

##### [ "Message" sheet ]



	A	B	C	D
1				
2		<b>Stop data check</b>	After clicking the button, it may take several minutes to stop the check processing.	
3				
4	Z36	[mes53:Error] The combination of Substance code(CAS No.), Substance name and IMDS node ID(su		
5	AA36	[mes17:Error] The entered value is not found in the list.		
6	Z63	[mes53:Error] The combination of Substance code(CAS No.), Substance name and IMDS node ID(su		
7	AA63	[mes17:Error] The entered value is not found in the list.		
8	Z91	[mes53:Error] The combination of Substance code(CAS No.), Substance name and IMDS node ID(su		
9	AA91	[mes17:Error] The entered value is not found in the list.		
10	Z106	[mes53:Error] The combination of Substance code(CAS No.), Substance name and IMDS node ID(su		
11	AA106	[mes17:Error] The entered value is not found in the list.		
12	Z125	[mes53:Error] The combination of Substance code(CAS No.), Substance name and IMDS node ID(su		
13	AA125	[mes17:Error] The entered value is not found in the list.		

When clicking the code in the column 'A', it is linked to the location where an error occurs.

What must be corrected here is the ‘Error’. For the details of ‘Error’ level, please refer to ‘Operational manual (Japanese only)’.

**Information :** For 'Operational manual (Japanese only)', refer to P.73-75

JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

After correcting the error, save, and click ‘Data check’ again.

	A	
1	No error found	
2		
3		
4		
5		

Navigation: Cover Entry Description MESSAGE

When the error is corrected, the message ‘No error found’ appears.

**Information :** In Ver. 3.00, the rule of the material description has been changed to improve compatibility between IMDS and JAMA sheet.

In the first error check, the values of “Material name”, “Norms/Standards”, “Material number”, and “Material symbol” will be automatically converted according to the new rule of the material description to enable to reuse JAMA sheet data created with the Ver.2.51 or before. Updated cells will be colored gray.

“The first error check” means the first error check after opening the input file, importing a CSV file, or clearing all contents.

## Notice !

- Depending on PC model or data size, it may take long time to finish error check.
- If the data (without error) created with the JAMA sheet (old version) is used with the new version, an error or warning may appear. Such a case occurs when the External list is changed in accordance with JIS revision.



**Information :** Error check of material data derived from IMDS [Ver 3.02 ~]

When IMDS data is put on JAMA sheet, material data derived from IMDS is identified \* 1  
and the result of collating material information against JAMA sheet external list has been changed  
from error to warning \* 2.

※1 Identification method of material data derived from IMDS

It identifies by the value existence of "IMDS node ID (material) " (Item number: 46).

42	43	44	45	46	47	48
JAPIA OPTIONS						MATERIAL
Substance portion (Minimum)	Substance portion (Maximum)	Substance portion (Rest)	IMDS node ID (part)	IMDS node ID (material)	IMDS node ID (substance)	Internal Mat.-No.
Number	Number	"1"	ASCII characters	ASCII characters	ASCII characters	ASCII characters
10	10	1	20	20	20	50
6	6	0	0	0	0	0

※2 Result of matching the material information against the JAMA sheet external list

Original data	IMDS NodeID (material) (Item No : 46) value	Error check result when it does not match EXLIST
From IMDS	NodeID from Original data (material)	Warning
From JAMA sheet	Not described (except standard materials)	Error

Error check result Example

Original material from IMDS

Existing value → Warning

Different material from EXLIST

Non value → Error

Stop data check

After clicking the button, it may take several minutes to stop the check processing.

024 [mes135:Warning] The combination of Material name, Norms/Standards, Material-No., Material symbol and VDA classification is not consistent with the value in the list .

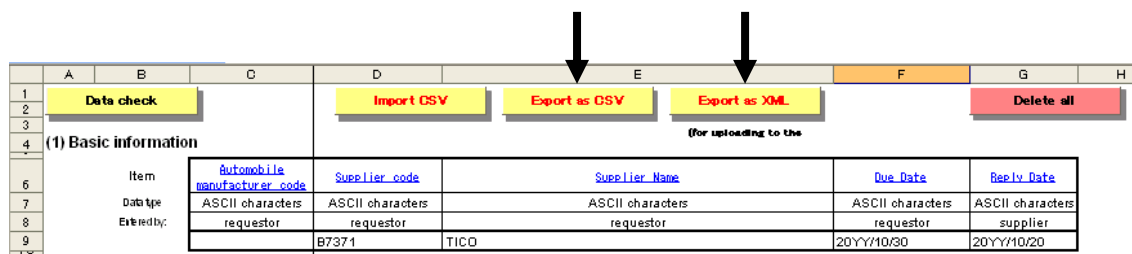
025 [mes26:Error] The combination of Material name, Norms/Standards, Material-No., Material symbol and VDA classification is not consistent with the value in the list .

## 5) Data Export

Following the instruction by your requestor, export the data.

Some requestor can't receive your e-mail, when you attach large data which exceed 1MB.

Please click 'Export as CSV' in the top of Entry sheet in the JAMA sheet to convert to CSV file.

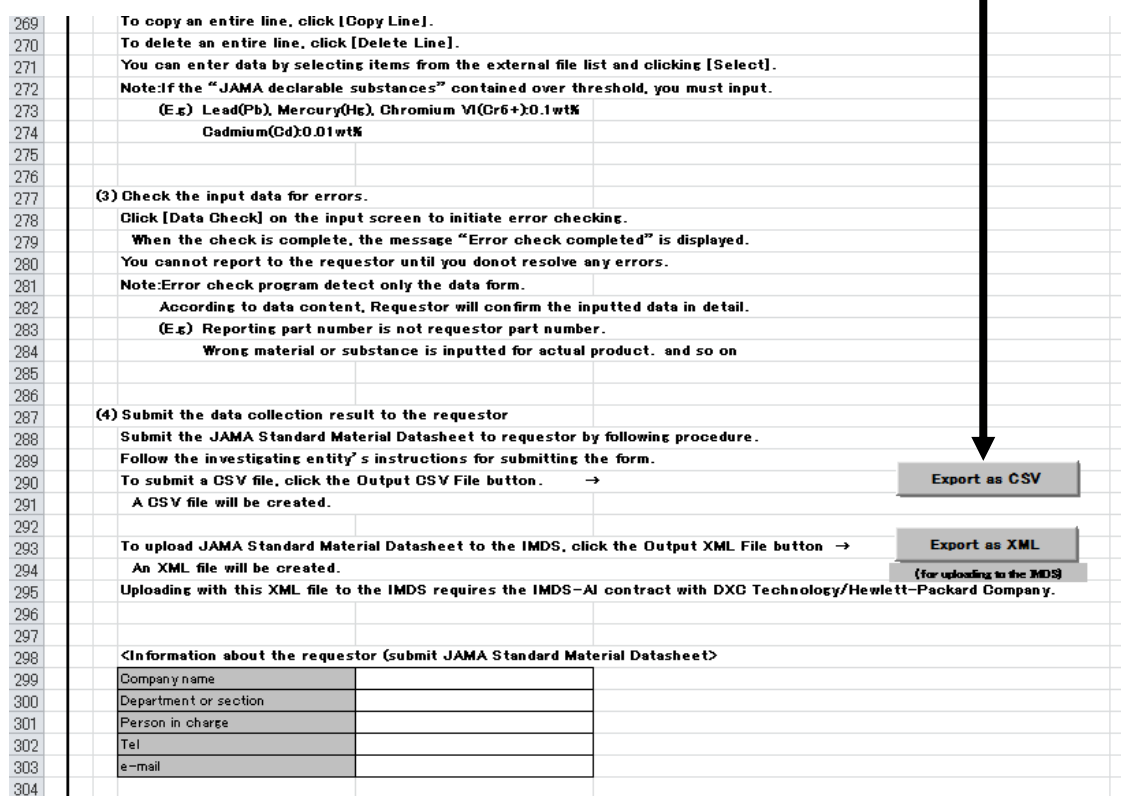


	A	B	C	D	E	F	G	H
1								
2		<b>Data check</b>		<b>Import CSV</b>	<b>Export as CSV</b>	<b>Export as XML</b>		<b>Delete all</b>
3								
4								
5								
6								
7								
8								
9								

(1) Basic information

Item	Supplier code	Supplier Name	Due Date	Reply Date
Automobile manufacturer code	requestor	requestor	requestor	supplier
Data type	requestor	requestor	requestor	supplier
Entered by:	B7371	TICO	20YY/10/30	20YY/10/20

'Export as CSV' and 'Export as XML' buttons in the 'Cover' sheet can do the same operation as those buttons in the top of Entry sheet.



To copy an entire line, click [Copy Line].

To delete an entire line, click [Delete Line].

You can enter data by selecting items from the external file list and clicking [Select].

Note: If the "JAMA declarable substances" contained over threshold, you must input.

(E.g.) Lead(Pb), Mercury(Hg), Chromium VI(Cr6+):0.1wt%

Cadmium(Cd):0.01wt%

(3) Check the input data for errors.

Click [Data Check] on the input screen to initiate error checking.

When the check is complete, the message "Error check completed" is displayed.

You cannot report to the requestor until you donot resolve any errors.

Note: Error check program detect only the data form.

According to data content, Requestor will confirm the inputted data in detail.

(E.g.) Reporting part number is not requestor part number.

Wrong material or substance is inputted for actual product. and so on

(4) Submit the data collection result to the requestor

Submit the JAMA Standard Material Datasheet to requestor by following procedure.

Follow the investigating entity's instructions for submitting the form.

To submit a CSV file, click the Output CSV File button. →

A CSV file will be created.

To upload JAMA Standard Material Datasheet to the IMDS, click the Output XML File button →

An XML file will be created.

(for uploading to the IMDS)

Uploading with this XML file to the IMDS requires the IMDS-AI contract with DXC Technology/Hewlett-Packard Company.

<Information about the requestor (submit JAMA Standard Material Datasheet)>

Company name	
Department or section	
Person in charge	
Tel	
e-mail	



Data volume is reduced to several kB as it is converted to CSV file.

When compressing data sheet, please change the extension of the compressed data. As the file has an extension (e.g.: ZIP) that many requestors can't send by their virus check system, please consult with your requestor to change the extension (e.g.: ZIP → ZI).

#### Information : CSV file

A	B	C	D	E	F	G	H	I	J	K	L
C	Ver.2.xx	20yy/mm/	Successful		EXLIST-20yy-mm-dd						
H	M111	S222	XXX corporation	20yy/mm/	20yy/mm/dd						
D		1	2.41 E+09 PLATE ASSY	64	G121 E0001		1				
D		2	2.41 E+09 PLATE ASSY		G121 E0001		2	2.41 E+09 PLATE SUI		40	1
D		3	2.41 E+09 PLATE ASSY		G121 E0001		3	2.41 E+09 PLATE		22	1
D		4	2.41 E+09 PLATE ASSY		G121 E0001		3	2.41 E+09 PLATE			1
D		5	2.41 E+09 PLATE ASSY		G121 E0001		3	2.41 E+09 PLATE			1
D		6	2.41 E+09 PLATE ASSY		G121 E0001		3	2.41 E+09 PLATE			1
D		7	2.41 E+09 PLATE ASSY		G121 E0001		3	2.41 E+09 PLATE			1
D		8	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD		4.2	4
D		9	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD			4
D		10	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD			4
D		11	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD			4
D		12	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD			4
D		13	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD			4
D		14	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD			4
D		15	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD			4
D		16	2.41 E+09 PLATE ASSY		G121 E0001		3	9.42E+09 NUT,WELD			4
D		17	2.41 E+09 PLATE ASSY		G121 E0001		3	WELDING		1	1
D		18	2.41 E+09 PLATE ASSY		G121 E0001		3	WELDING			1
D		19	2.41 E+09 PLATE ASSY		G121 E0001		3	WELDING			1
D		20	2.41 E+09 PLATE ASSY		G121 E0001		3	WELDING			1
D		21	2.41 E+09 PLATE ASSY		G121 E0001		3	WELDING			1
D		22	2.41 E+09 PLATE ASSY		G121 E0001		3	WELDING			1
D		23	2.41 E+09 PLATE ASSY		G121 E0001		3	WELDING			1
D		24	2.41 E+09 PLATE ASSY		G121 E0001		3	ZINC PLAT		0.18	1

## **5. Summary**

JAMA sheet is the data sheet developed jointly by JAMA and JAPIA, which is revised in accordance with the changes of the regulation of chemical substances and IMDS.

Please check the latest information in the JAMA sheet. Also, when a problem occurs, please consult with your requestor.

**Information :** Go to the following site to obtain the latest JAMA Sheet

JAPIA Official Site:

<https://www.japia.or.jp/en/index.html> --> 'JAMA/JAPIA Standard Material Datasheet'

## <Supplement 1>

In this instruction,

the Data input form is described as 'jamasheet\_en20yymmdd'

and the External list, 'EXLIST-20YY-MM-DDEN'.

File name when the manual was issues was as follows;

Manual Version	File name of the Data input form	File name of the External list
3.01	jamasheet_en20191001	EXLIST-2019-10-01EN

### Notice !

**JAMA sheet (Data input form) has the operating time limit. Please note that the selective function for data input and the error check function do not work if it passes the time limit. Because the JAMA sheet cannot access it's External list any more. However, it is possible to open data by the JAMA sheet for viewing.**

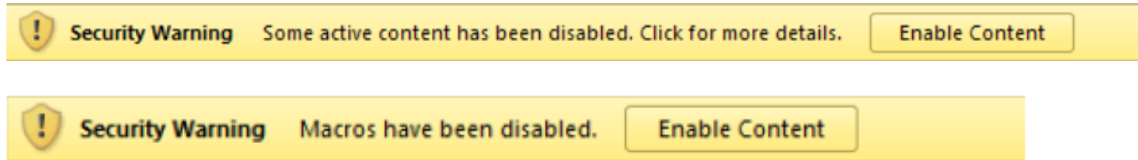
**The following table shows the operating time limit for each recent version.**

Version	Operating time limit
3.02	November 30, 2020
3.01	January 31, 2020
3.00	September 30, 2019
2.51	Expiration

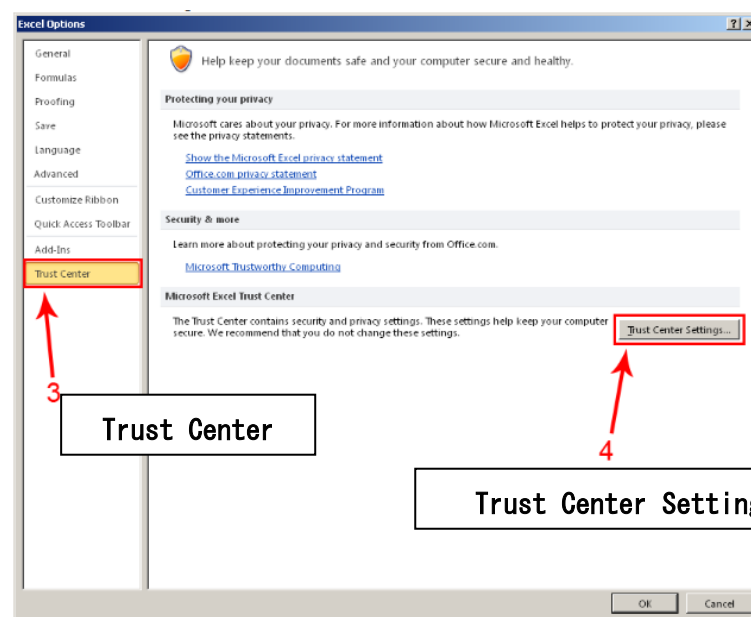
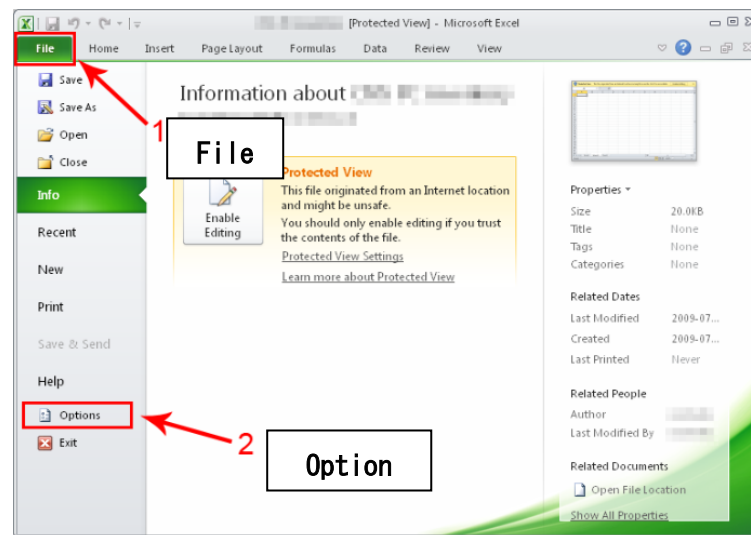
※ October 2019 revision Version 3.02 external list (EXLIST-201910-01JP.xlsx) is valid until May 31, 2020.

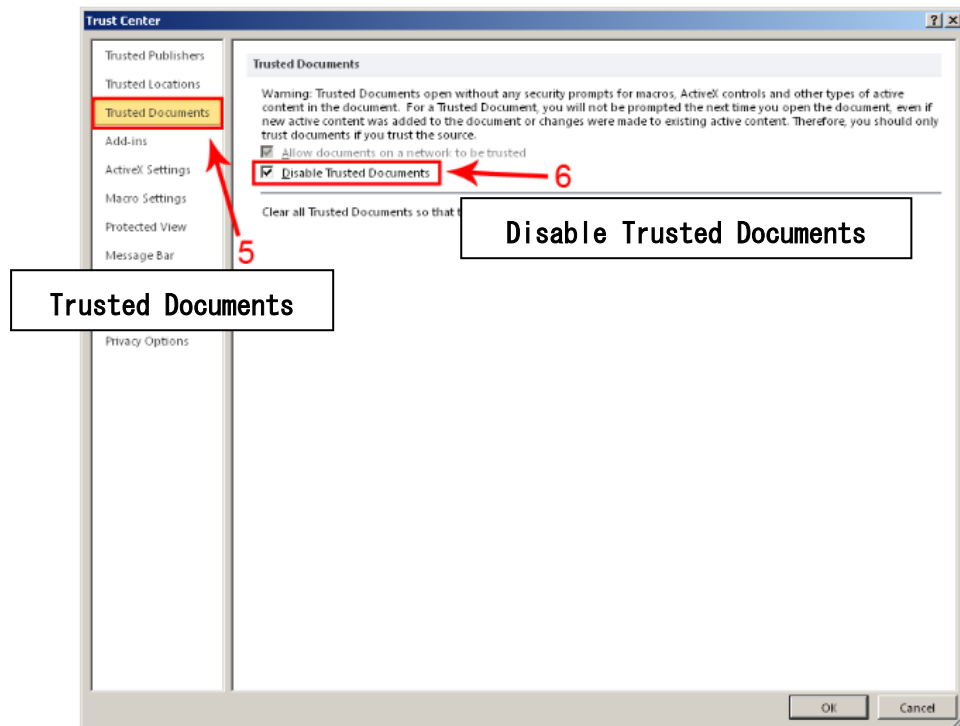
## <Supplement 2>

After entering the password to start the JAMA sheet, if the following “message bar” in relation to the behavior of Excel macro is not displayed, it is recommended to setup Excel appropriately in the following way (The screen shot is Excel 2010).



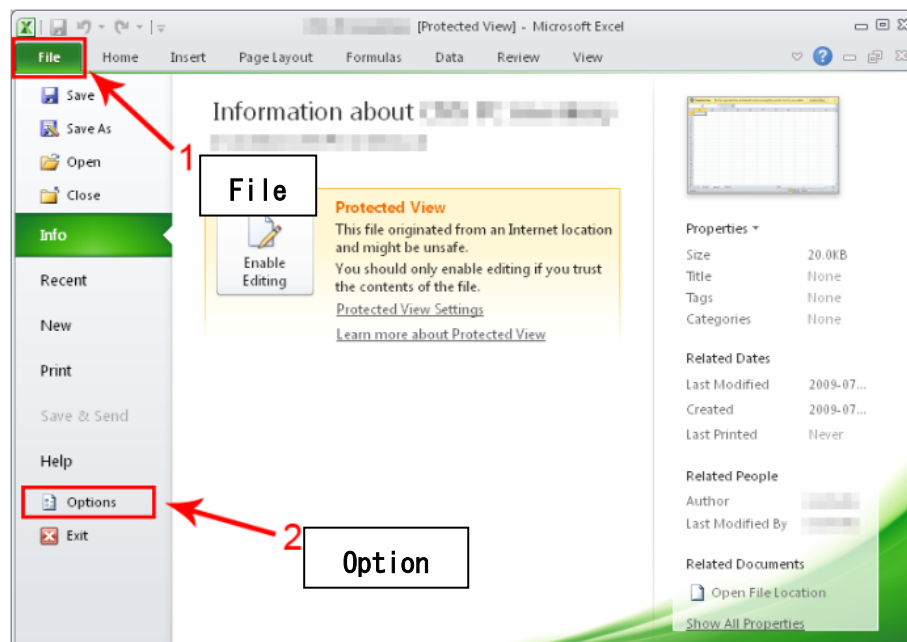
- (1) Setup the ‘Disable Trusted Documents’ first. (Please work in the order of the following screens)

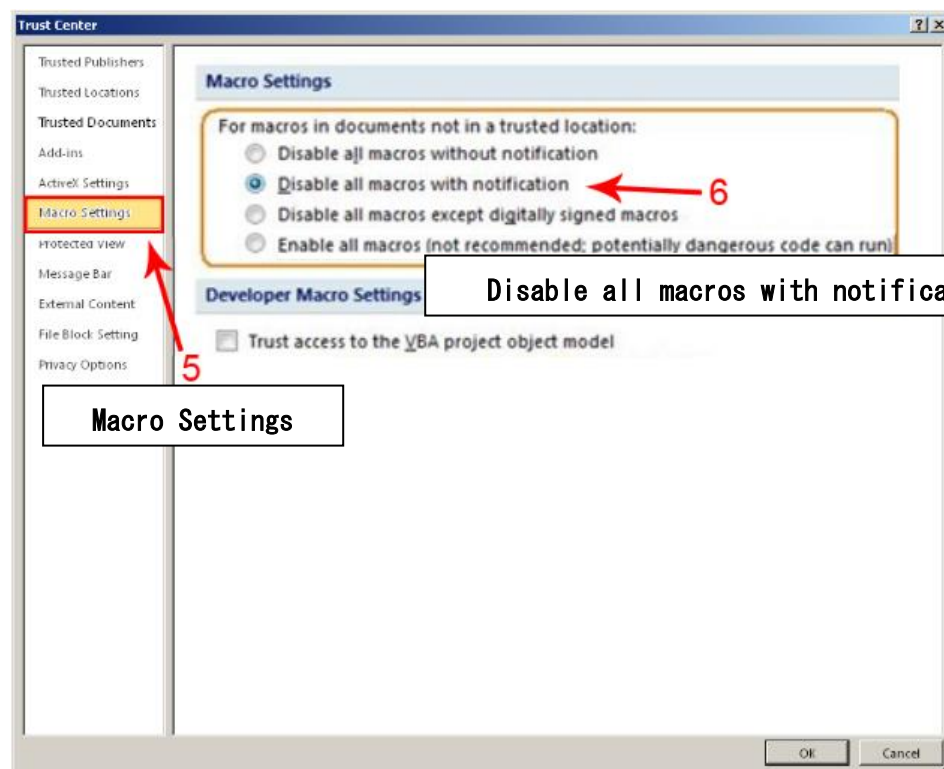
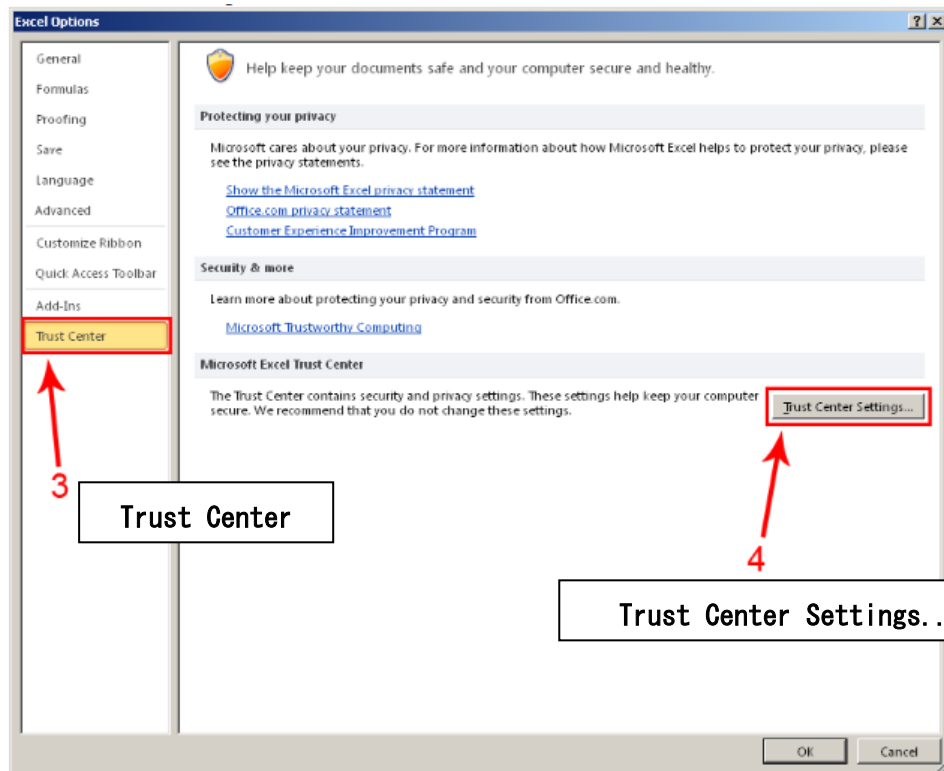




Click the “OK” button to close the window.

(2) Next, setup the ‘Disable all macros with notification’.





Click the “OK” button to close the window. With this, the procedure completes.

- END -