MAZDA IMDS INPUT GUIDE

Ver.2.00

March 2020

Mazda Motor Corporation

Environmental & Safety Engineering Dept.

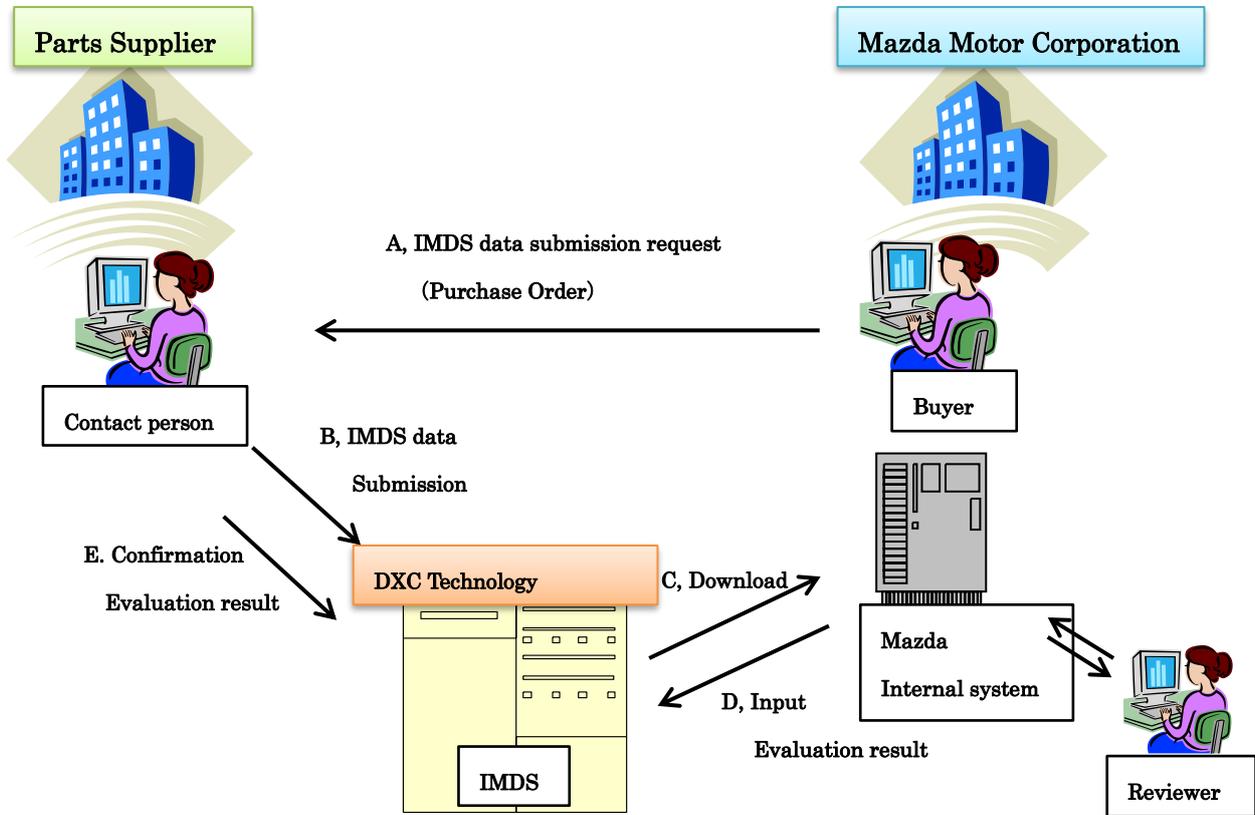# Contents

1. IMDS Operation

(1) IMDS Submission Flow and Schedule

・IMDS Submission flow

Parts Supplier

Mazda Motor Corporation

A, IMDS data submission request
(Purchase Order)

Contact person

Buyer

B, IMDS data
Submission

E. Confirmation
Evaluation result

DXC Technology

C, Download

Mazda
Internal system

D, Input
Evaluation result

IMDS

Reviewer

・IMDS Submission schedule

The deadline for suppliers to input the material data sheet (MDS) is set principally about 3 months after your receipt of "IMDS data submission request".

Request
-4 month

-3 month

Reminder
-2 month

Urgent request
-1 month

Parts supplier

B, IMDS data submission （3 month）

A, IMDS Data submission request
(Purchase order)

C, Download
D, Result submission

Mazda Motor Corporation

Development
(Drawing)

Certification

Preparation
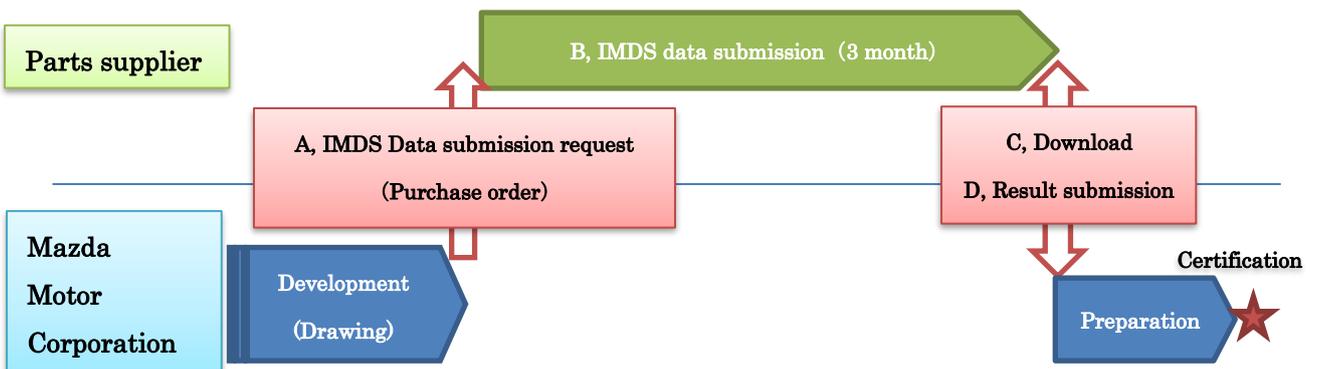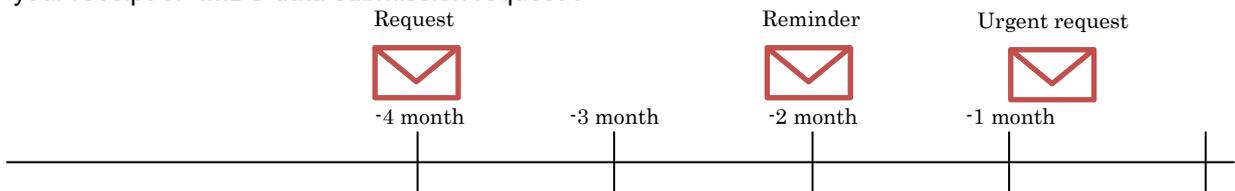
A, IMDS data submission request

In principle, IMDS data submission requests are provided in Purchase Order.   In case you receive other IMDS data submission request which contain another deadline, please take care of it with the earlier deadline.

B. Data Submission

Please follow the procedure in the 2. Requirement for Data Submission.   Please submit Material Data Sheet (MDS) to Mazda Motor Corporation（Mazda's IMDS Company ID=3100）by using IMDS function.

C. Download

After suppliers submit MDS in IMDS system, Mazda's internal system downloads MDS from IMDS system every day.   After the download, IMDS system indicates the status as "in process at recipient". Please note you cannot revoke the submitted data after Mazda's download.

D. Evaluation Result

Mazda investigates your submitted MDS with its own internal system and/or reviewers, and input the evaluation results in IMDS system.

E. Confirmation of Evaluation Result

Please be sure to contact IMDS system and confirm the evaluation result (accept/reject and its reason) on IMDS system. In case Mazda rejects your MDS which does not meet Recommendation001, MES MA010, or Mazda's IMDS input guideline, please confirm the reason of rejection on IMDS system, and submit the revised MDS.

(2) Contact Person

When the Contact Person is changed, please inform Mazda Motor Corporation the new Contact Person by e-mail (IMDS-support@mazda.co.jp).   Please be sure to revise the information of the Contact Person in IMDS system, too.   Without this information, our IMDS Operation will not work properly.

(3) MES MA010 "RESTRICTED SUBSTANCES MANAGEMENT STANDARD"

MES MA010 specifies substances to be restricted (prohibited or declared) for use in IMDS system.

This standard will be updated on a regular basis, so please confirm the contents when it is issued.

◆As for the newly added restricted substances of concern in the updated MES MA010, in case you find them in your parts for already submitted MDS, please correct (add/revise) MDS in IMDS system.

◆When you don't find the objective substances probably because un-match of the issue date between regulation and MES MA010, please refer to the latest edition of each regulation and standard, and adapt it.

2. Requirement for Data Submission

(1) Observance

In this section, it is explained IMDS data submission rule by Mazda Motor Corporation.   As for other items not mentioned below, please follow IMDS Recommendation 001 and IMDS User manual.

-IMDS Recommendation001

http://www.mdsystem.com   → [Log in] → [Help] → [Recommendation]

-IMDS User Manual

http://www.mdsystem.com   → [Log in] → [Help] → [On line user manual]

If you have any questions, please contact Mazda IMDS support desk（IMDS-support@mazda.co.jp）.

(2) Material Data creation

Please create Material according to instructions in the following Table.

	Entry Field	Necessity	Instructions
1	Name	**Mandatory**	Use the standard name prescribed in standard materials (Example for JIS, ISO) by all means. When above name is not available, use any of the following. ・The concrete name that materials classification is identifiable （Example; Carbon steel, Stainless steel etc.） ・The name that is registered with JAMA （Example; FE, AL, SINTERFE, MAGNETFERRITE etc.）
2	Trade name		When your material contains Mazda supplied material;
		Mandatory	Input 7-digid Material Code designated by Mazda
			When your material does not contain Mazda supplied material;
		Optional	Input the trade name of material.
3	Internal Mat.-No.	Optional	Use it for the number/signature of parts for your company.
4	Preliminary MDS	**Mandatory**	Deselect the check box.
5	Standard Mat.-No.	Optional	Input a metal materials number defined in the public material standard. Notice; It can be only used for metal materials.
6	Symbol	**Mandatory**	Input a material marking (e.g.,: PP, PA, POM etc.) along a standard as follows. ・Polymer material: ISO11469, ISO1043-1, ISO1043-2 ・Elastomer material: ISO1629 (You should not apply to a tire) Notice; It can be only used for polymer or elastomer materials.
7	Classification	**Mandatory**	Select from search menu.

| 8	Norms/Standards	Optional	Input standard material cords such as JIS, ISO, etc. according to a list registered as the standard material data by IMDS Committee.
9	Supplier	Optional	Input your supplier name providing materials.
10	Remark	Optional	Use it freely, if you needed.
11	Amounts and Weights	**Mandatory**	Input an actual measured weight, when you add it under the component (in case of difficult, the design weight is acceptable).

(3) Chemical Substance input

Please input the substance of material data, according to the following procedure.

[Principal substance]   +   [GADSL mentioned substances]   +   [Other substances]

A. As for [Principal substance], use of the wild card is prohibited.

B. As for [GADSL mentioned substances], refer to http://www.gadsl.org.

C. As for [Other substances], the use of the wild card is acceptable, but total amounts of wild cards should be less than 10% of materials mass.

D. Please do not input materials that does not remain in the final product. (e.g. Volatile substances, materials that change into other materials after hardening).

E. In case of a standard metal material, input substances exactly corresponding to the public data.

Refer to the right figure to search the public data on the IMDS Committee
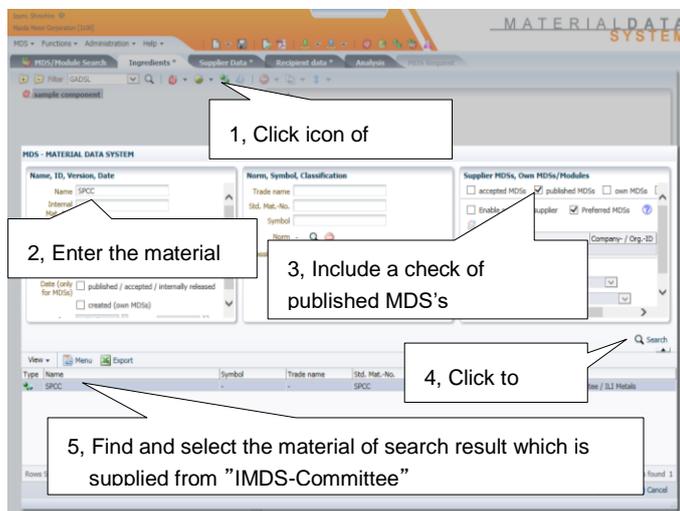
F. When child node material is placed with parent node material, please input value so that the range difference (difference between maximum and minimum value) becomes 20% or less.

The portion range value: 100.0 − 70.0 = 30.0

> It will be rejected (difference exceeds 20 %)

G. When using the range value of content rate, please input range value (LV: lower Value, and UV: Upper Value) so that the acceptable maximum difference M (M: difference between upper and lower value) becomes same or less than the value in the following table.

Acceptable maximum difference M (Upper Value (UV) - Lower Value (LV))	
Lower Value (LV)	Acceptable difference M (= UV% - LV%)
$0 \leq LV \leq 7.5$	$M \leq 3$
$7.5 < LV \leq 20$	$M \leq 5$
$20 < LV \leq 100$	$M \leq 10$

H. As for the materials that has surface treatment such as plating or the painting, <u>please separate material data of a matrix from the one of surface treatment</u>.

I. In case of the part with some color variations, create one datasheet which contains all paints/pigments/dyes material.   Adjust the weight of main material in the datasheet by subtracting all added weight of paints/pigments/dyes, and make it as the original total component weight.

◆ If you have any questions, please contact Mazda IMDS support desk （IMDS-support@mazda.co.jp） with the explanation of your situation and the concerned parts number, before submitting MDS.

(4) Component creation

Please create MDS as like the actual constitution of component in the drawings.

Please note that you can use component only as the 1st parts level.

Please create Component/Semi-component according to instructions in the following Table.

	Entry Field	Necessity	Instructions
1	Description	**Mandatory**	<u>1st part</u> : Input English Part name described in Mazda's drawings <u>2nd part</u> : Input Part name as like 1st part, or you can use name in your company.

2	Part/Item No.	**Mandatory**	<u>1st part</u> :
			Input 9 or 10 digit Mazda Part numbers without any space or hyphen.
			Notice; If you input any space or hyphen, Mazda reject your datasheet.
			   Correct example : MZD100001A
			   Incorrect example : MZD1-00001-A, MZD1 00001 A
			<u>2nd part</u> :
			Input Part number as like 1st part, or you can use number in your company.

3	Preliminary MDS	**Mandatory**	Deselect the check box.
4	Measured weight per item	**Mandatory**	Input an actual measured weight (if not available, the design weight is acceptable).

◆ Difference of part weight between measured weight and automatically calculated weight:

The acceptable difference between inputted part weight and automatically calculated part weight depends on the parts weight.

Please input part weight and the sum of each material weight accurately so that the deviation is within the range. (See the right Table)

Weight of component (X)	Max. deviation (%)
X < 1g	100 %
1g ≤ X < 100g	10 %
100g ≤ X < 1kg	5 %
1kg ≤ X < 10kg	2 %
10kg ≤ X < 100kg	1 %
100kg ≤ X	0.5 %

(5) Adding Materials to Component

When you add Materials to a Component, please follow the instructions as shown in the following Table.

	Entry Field	Necessity	Instructions
1	Application	**Mandatory**	EU - ELV directive Four restricts heavy metals with some exemption for some specific use. Since the date of prohibition (the expiration date of exemption) is determined at any time by authority, it is necessary to confirm whether the exemption provision is still valid or not when you use the target SOCs. Please confirm whether you can use it or not according to MES MA010 and the application ID shown by referencing with the following procedure. http://www.mdsystem.com [IMDS information page] → [Help] → [FAQ] → [MDS Ingredients Screen] Note; the initial value may be displayed by the system, but please confirm the application by all means.
2	Recyclate	**Mandatory**	Input whether you use recycling materials or not. In case you use the recycling materials, please also input the following; ・Recycling materials in the production process (pre-consumer recycling materials) ・Collection rate for the recycling materials from market (post-consumer recycling materials)
3	Marking for Polymeric part(s), ex. resin or elastomers	**Mandatory**	In case that an indication in a drawing is to carried out marking: "Yes" In case that an indication in drawing is not to carried out marking: "No" In case that an indication is not necessary to carry out marling by mass requirements: "Not Applicable"

◆ When CAS No. of BPR is found and its classification is "D/P", please confirm that a purpose of use is NOT a biocide purpose.

◆ As for the parts which includes organic tin compound, it will be restricted in case that pure tin in organic tin compound exceeds 0.1% of the part weight.
・Calculation method for pure tin in organic tin compound
  https://public.mdsystem.com/documents/10906/17094/faq_organo_tin_compounds.pdf

(6) Recipient Data input on submitting Material Data

	Entry Field	Necessity	Instructions
1	Company	**Mandatory**	Search and apply the following destinations. Company Name; Mazda Motor Corporation Company ID; 3100
2	Supplier code	**Mandatory**	Input Supplier Code designated by Mazda (5-digid code "K****" or "S****")
3	Name	**Mandatory**	Input 7-digid Material Code designated by Mazda
4	Internal Mat.-No.	**Mandatory**	Input "MATERIAL"
5	Forwarding allowed	**Mandatory**	Select the Check box.

(7) Recipient Data input on submitting Part Data

	Entry Field	Necessity	Instructions
1	Company	**Mandatory**	Search and apply the following destinations. Company Name; Mazda Motor Corporation Company ID; 3100
2	Supplier Code	**Mandatory**	Input 5-digid Supplier Code designated by Mazda (ex. S0001 or K1234)
3	Name	**Mandatory**	Input English part name described in drawing

4	Part/Item No.	**Mandatory**	Input 9-10ditit part No. described in drawing without any hyphen or space.
			 When there any hyphen and space, MDS will be rejected.
			  The example which is approved : "MZD100001A"
			  The example which is rejected : "MZD1-00001-A", "MZD1 00001 A"

5	Legacy Spare Part	**Mandatory**	Deselect the check box.
6	Forwarding allowed	**Mandatory**	Select the Check box.
7	Drawing No.	Optional	Input English part name described in drawing
8	Drawing dated	Optional	Input Drawing creation date
9	Drawing Change Level	**Mandatory**	Input the latest design change No.
10	Purchase Order No.	Optional	Input the Purchase Order No. for your operation
11	Bill of Delivery No.	Optional	Input the Bill of Delivery No. for your operation
12	Report No.	Optional	Input the Report No. for your operation
13	Date of Report	Optional	Input the Date of Report for your operation

(8) Mazda-Purchased/Supplied Parts and Materials

◆ Mazda-Purchased/Supplied Parts

When your parts include Mazda purchased/supplied parts, please create parts purchased/manufactured by your company only.　Mazda collects all datasheet of Mazda purchased/supplied parts, and because of confidential, Mazda never send the datasheet of Mazda purchased/supplied parts to your company.
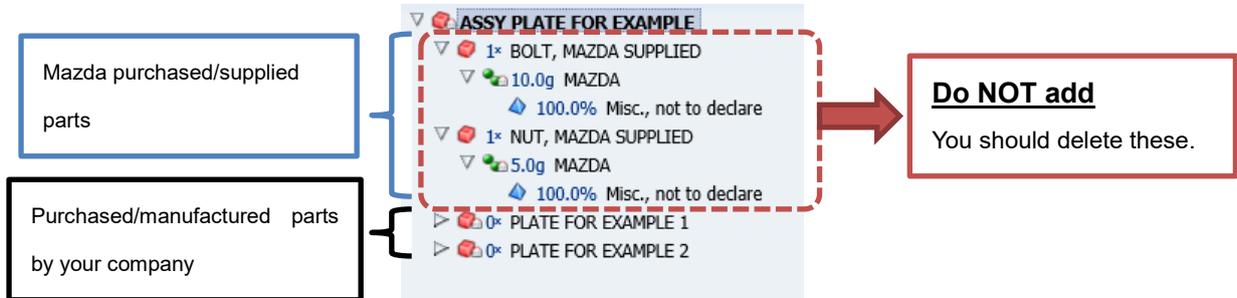
◆ Mazda-Purchased/Supplied Materials

When Mazda purchased/supplied material is a steel plate etc. defined by a public standard material, input the public data made by IMDS Committee or the substance exactly to fit other public data.

The following are examples of the datasheet when there is a published material prepared by the IMDS Committee and when there is no published material.

- When there is a published material prepared by the IMDS Committee;

    => Refer to the following example, use the published materials, and send us a datasheet
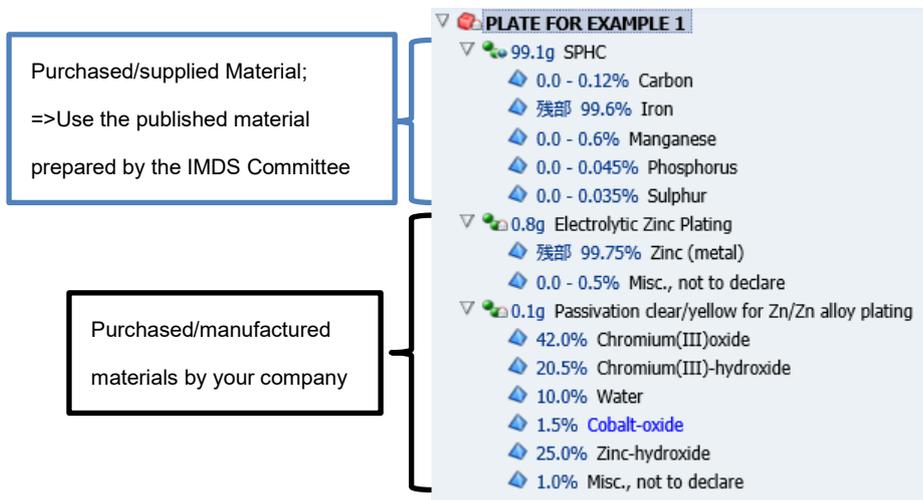
- When there is no published material prepared by the IMDS Committee;

=> Refer to the following example, use the dummy published materials, and send us a datasheet

1. Create a dummy material for material information and input "Name", "Trade name", and "Amounts and weight".   See the 2. (2) Material Data Creation.

2. Add a dummy material (ID: 902405298/1, name: MAZDA) which is published by Mazda for substance information under 1.   The content rate of 2 should be set to 100%.

Purchased/supplied Material;
=>Create both, the dummy material for material information on middle level and additional dummy material for substance information on bottom level.

Purchased/manufactured materials by your company

▽ 🔴 PLATE FOR EXAMPLE 2
  ⊟ 99.1g SPHN1
    ▽ 📦100.0% MAZDA
      ◇ 00.0% Misc., not to dec
  ▽ 📦0.8g ectrolytic Zinc Plating
    ◇ 残 99.75% Zinc (metal)
    ◇ 0.   0.5% Misc., not to dec
  ▽ 📦0.1g ssivation clear/yellow fo
    ◇ 42 % Chromium(III)oxide
    ◇ 20 % Chromium(III)-hydro
    ◇ 10 % Water
    ◇ 1. % Cobalt-oxide
    ◇ 25 % Zinc-hydroxide
    ◇ 1. % Misc., not to declare

Middle level:
Dummy material for material information

Details
⊻ Common Information
  Type Material (Module) 👁 ✏
  ID / Version 911680894 / 0.01
  Node ID 911680894
  Name SPHN1
  Trade name 1234567
  Internal Mat.-No. -
  Preliminary MDS No
⊻ Dates
  Create Date 3/6/2020 ❓
  Check/Release Date not available ❓ 📋 Recommendation
⊻ Amounts and Weights
  Weight   99.1 g ∨

Bottom level:
Dummy material for substance information

Details
⊻ Common Information
  Type Material (published MDS) 👁
  ID / Version 902405298 / 1
  Node ID 902405298
  MDS Supplier Mazda Motor Corporation
  Name MAZDA
  Trade name Mazda supplied material
  Internal Mat.-No. MATERIAL
  Preliminary MDS No
⊻ Dates
  Create Date 2/6/2020 ❓
  Check/Release Date 3/4/2020 ❓ 📋 Recommendation
⊻ Amounts and Weights
  Portion Fix ∨
           100 %

On [Material Search]

1. On [Supplier MDSs, Own MDSs/Modules], select the check box of [published MDSs].

2. On [Supplier MDSs, Own MDSs/Modules], deselect the check box of [preferred MDSs].

3. On [Name, ID, Version, Date], input "MAZDA" at [Name] or input "902405298" at ID.
    After clicking the [Search], you can find a dummy material published by Mazda.

3. Help

(1) FAQ

Here we summarize frequently asked questions about IMDS input work.

No.	Question	Answer
1	Can our competitors view the datasheet of IMDS which sent to Mazda based on a request from you?	No, any other companies than Mazda and its affiliates cannot view IMDS data sheets your sent.
2	A design change is planned after the delivery date provided by Mazda.	Please contact the Mazda IMDS Support Desk for support after describing the part number and design change time.
3	How do you judge the datasheets for legacy spare parts or parts that are only shipped to certain regions?	All data sheets are judged by the latest MES MA010. Parts that comply with the law in consideration of the type approval time and market are approved by submitting an exemption application.
4	Is it mandatory not to set wildcard for Rest?	It is optional. The datasheet with wildcard for Rest and the sum of the minimum values of the other substances is less than 90% is accept.
5	Would the datasheet be rejected if it contains process chemicals?	There would be acceptable if containing a normal amount. But if MDS contains large amounts of process chemicals, it would be rejected.
6	I need the information of the time period for ELV Annex II application (Vehicle Type Approval period).	Contact the Mazda IMDS support desk with application code and part number.
7	I have sent wrong datasheet.	Cancel the wrong datasheet on IMDS, or send the revised datasheet that has larger ID / version than that of the wrong datasheet.
8	Only one data was approved when I sent the datasheets information of the plural parts of the suffix difference.	If data with the same part number / suffix difference is received on the same day, data other than the latest suffix or the latest ID / version will be rejected.
9	What is the exemption application?	Declaring compliance with our design department using a design change request is called an exemption application.
10	I don't know where to revise the rejected datasheet.	Please see the "Communication Information" of [Recipient Data] in your rejected datasheet.　The specific point for correction is described.
11	Can we share this IMDS guide with our suppliers?	Please share the latest version, available on IMDS HP. https://public.mdsystem.com/ja/web/imds-public-pages/oem-specific-info
12	Can you support us when Tier.2 supplier refuses disclosing the material information?	Mazda support you as much as possible.　Contact Mazda IMDS support desk.

(2) Support

Concerned item	Department	Telephone	E-mail
This guide	Mazda IMDS support desk (Mazda E&T)	+81-82-287-4274	IMDS-support@mazda.co.jp

Notice; On Telephone calls, Mazda IMDS support desk can support Japanese only.

We recommend to use e-mail for contacting us, when your language is English.

Establishment/revision/abolition record

count	Ver.	Year, Month, Day Establishment / revision / abolition status	Revised contents		Drafter
			Main revised content	Reason	
00	1.00	2016.07	First edition	Appropriate management of environment burdening substances	Tomita T. Vehicle Regulation & U.S. Certification Group
01	1.01	2016.11	Addition of exemption concerning sintered metals and rule concerning material name.	same as above	Tomita T. Vehicle Regulation & U.S. Certification Group
02	1.02	2017.02	Complete revision	same as above	Izumi S. Vehicle Regulation & U.S. Certification Group
03	1.03	2017.06	Revision of 1.Data Input Guide, 2.Data Input Precautions, 4.FAQ	same as above	Izumi S. Vehicle Regulation & U.S. Certification Group
04	1.04	2018.04	Revision of all	same as above	Fujii T. Vehicle Regulation & U.S. Certification Group
05	1.05	2018.08	Revision of 3.(1) Correcting Data E05	Same as above.	Fujii T. Vehicle Regulation & U.S. Certification Group
06	1.06	2019.01	Change of Telephone Number for Mazda IMDS support desk	Change of operation style	Fujii T. Vehicle Regulation & U.S. Certification Group
07	2.00	2020.03	- Support for IMDS 12.0 - Change of substance entry rules - FAQ correction	Appropriate management of environment burdening substances	Fujii T. Vehicle Regulation & U.S. Certification Group