Remarks upon IMDS data submission

Objective of IMDS Data Acquisition
- Background and Objective
- Data Acquisition and Submission Tool - IMDS
- Important Points at Creating Material Datasheet

Operational Flow till Data Submission

Preparation: IMDS Company Registration

I. Survey Request to Your Suppliers
   II a. Incoming IMDS Data Check
   II b. Create Material Datasheet
      (Supplement II-1) Create Datasheet of Composite Material
      (Supplement II-2) Create Datasheet of Mixed material
      (Supplement II-3) Check Presence of Declarable Substances
   II c. ☆ Create Supplied Material Data

III. Create Supplied Material Data
   III a. Create Component Datasheet
   III b. ☆ Create Supplied Part Data
   III c. Create Complex Component
   III d. ☆ Part with Plant-specific Assembly Number

IV. ☆ Datasheet Submission
   IV a. Datasheet Submission
   IV b. Datasheet Forwarding (For Trading Company)
   IV c. Data Correction if Datasheet Rejected
      (Supplement IV-1) Error Code Table
      (Supplement IV-2) Pre-check upon Drawing Revision

Appendix
- IMDS Warning Message
- IMDS Error Message
- Notification from IMDS

For Yamaha Motor Group Business Partners

IMDS Submission Manual

Sections marked with ☆ are Yamaha-specific manners of datasheet handling.

Yamaha Motor Co., Ltd. SOC Group

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Upon submission to YAMAHA, make sure Recipient ID, Supplier Code and Part No.
*Datasheet containing incorrect information will be rejected.

- **Recipient**: Refer to next page for YAMAHA Group Company ID
- **Supplier Code**: Dedicated code for business of objective part (e.g. 1234)
- **Part/Item No.**: Part No. or Material Code in business (e.g. ABC-12345-00-00-80)

**[IMDS “Recipient data” page]**

IMDS Recipient to be added by “Company ID”.
*Each of Yamaha Group company has an unique ID.

Correctly describe dedicated supplier code and part no. being used for the business of objective part.

(Note) When you receive a survey request from Automobile Engine Division of YAMAHA Motor, please follow the separate instructions from Automobile Engine Division.
<table>
<thead>
<tr>
<th>Region</th>
<th>YAMAHA Group Company Name</th>
<th>Abbreviation</th>
<th>Company ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>YAMAHA MOTOR CO., LTD.</td>
<td>YMC</td>
<td>120146</td>
</tr>
<tr>
<td>Japan</td>
<td>Yamaha Motor Powered Products Co., Ltd.</td>
<td>YMPC</td>
<td>177699</td>
</tr>
<tr>
<td>Japan</td>
<td>YAMAHA MOTOR ELECTRONICS CO., LTD.</td>
<td>YEJP</td>
<td>140965</td>
</tr>
<tr>
<td>Japan</td>
<td>Y’S GEAR CO., LTD.</td>
<td>Y’S GEAR</td>
<td>201147</td>
</tr>
<tr>
<td>China</td>
<td>Yamaha Motor China Co., Ltd.</td>
<td>YMCN</td>
<td>174805</td>
</tr>
<tr>
<td>China</td>
<td>CHONGQING JIANSHE YAMAHA MOTOR CO., LTD</td>
<td>CJYM</td>
<td>130438</td>
</tr>
<tr>
<td>China</td>
<td>Zhuzhou Jianshe Yamaha Motor Co., Ltd</td>
<td>ZJYM</td>
<td>129690</td>
</tr>
<tr>
<td>China</td>
<td>LINHAI YAMAHA MOTOR CO., LTD.</td>
<td>LYM</td>
<td>134159</td>
</tr>
<tr>
<td>China</td>
<td>Yamaha Motor Powered Products Jiangsu Co., Ltd.</td>
<td>YMPJ</td>
<td>202705</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Yamaha Motor Taiwan Trading Co., Ltd.</td>
<td>YMTT</td>
<td>174807</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Yamaha Motor Taiwan Co., Ltd.</td>
<td>YMT</td>
<td>153706</td>
</tr>
<tr>
<td>Thailand</td>
<td>Yamaha Motor Asian Center Co., Ltd.</td>
<td>YMAC</td>
<td>184692</td>
</tr>
<tr>
<td>Thailand</td>
<td>Thai Yamaha Motor Co., Ltd.</td>
<td>TYM</td>
<td>121888</td>
</tr>
<tr>
<td>Indonesia</td>
<td>PT. Yamaha Indonesia Motor Manufacturing</td>
<td>YIMM</td>
<td>133157</td>
</tr>
<tr>
<td>Vietnam</td>
<td>YAMAHA MOTOR VIETNAM CO., LTD.</td>
<td>YMVN</td>
<td>164046</td>
</tr>
<tr>
<td>India</td>
<td>India Yamaha Motor Pvt Ltd (SJP)</td>
<td>IYM</td>
<td>189424</td>
</tr>
<tr>
<td>France</td>
<td>MBK INDUSTRIE</td>
<td>MBK</td>
<td>65226</td>
</tr>
<tr>
<td>Italy</td>
<td>MOTORI MINARELLI S.p.A.</td>
<td>Minarelli</td>
<td>184934</td>
</tr>
<tr>
<td>U.S.A.</td>
<td>Yamaha Motor Manufacturing Corporation of America</td>
<td>YMMC</td>
<td>165599</td>
</tr>
<tr>
<td>Brazil</td>
<td>YAMAHA MOTOR DA AMAZONIA Ltda.</td>
<td>YMDA</td>
<td>184936</td>
</tr>
</tbody>
</table>
Objective of IMDS Data Acquisition
In order to conform to legal obligations from various chemicals regulations in our global market, substances contained in our products must be identified.

Survey to be performed for the items shipped as products or part of product.

- parts, raw materials, subsidiary materials (oil, grease, adhesives intentionally applied to the product), packing materials for shipping

For each item, we request for conformity with Yamaha technical standard YGK-A-119 (Management rules for environmentally hazardous substances) by means of drawing or specification document. *1

Business partners are requested to collect information on ingredients of objective items and confirm that they meet our standards. Then, submit the collected ingredient data to our company via IMDS *2. The IMDS data is treated as quality assurance data for the required specifications of the YGK-A-119 and serves as evidence of regulatory compliance.

*1 If there are specific instructions from our requesting business operations, follow those instructions.

*2 IMDS (International Material Data System): A Global Standard Online Tool for Ingredient Data Declaration in the Automotive Industry
In accordance with our Quality Assurance Manual for Purchased Products, acquire material ingredients data (IMDS data or comparable data *1) of items shipped from Yamaha as part of our products.

IMDS submission request will be provided to business partners with specifying our part number. On the other hand, in the case of a revision due to a material change, submit IMDS data in accordance with our Quality Assurance Manual for Purchased Products, regardless contact from Yamaha.

It is planned for new and revised items that submission of IMDS data by the time of the inspection standards submission or the initial lot delivery is implemented into the production part approval process from January 2021.

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*1 The IMDS data contains 100% of the ingredient information to prepare for future stricter regulations. The analysis is not required, and the data declaration is based on the commercial flow. If component data is obtained in a format other than IMDS, create IMDS data based on it.
**Remarks upon Material Data Acquisition**

- When obtaining ingredient data in a format other than IMDS, request your material suppliers to provide 100% of the ingredient information. SDS (safety data sheet) would not include all substances, therefore communicate to request all substance information.

- In case facing difficulty to acquire data for confidentiality reason, request your material supplier to check presence of declarable substances*1.
  - Declarable substance(s) present: Specify substance identification No. (CAS No.) and portion precisely.
  - Non-declarable substances: General names (no CAS No.) or “Others” are accepted (“Others” to be up to 10%)

- Material must be described in its end state*2.
  - No evaporating solvents to be described (paint coatings, etc.)
  - Reactive materials to be described based on post-reacted state (adhesives after cured or coating film after chemical coating forming).

Please note that we may separately request a description of original state, such as unreacted or with solvent in case we deliver raw materials for maintenance purpose.

<table>
<thead>
<tr>
<th>Polymer</th>
<th>Example of material data</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA6</td>
<td>70~80 %</td>
</tr>
<tr>
<td>GF Fibre</td>
<td>10~15 %</td>
</tr>
<tr>
<td>DEHP</td>
<td>117-81-7 10 %</td>
</tr>
<tr>
<td>Confidential</td>
<td>5 %</td>
</tr>
</tbody>
</table>

For declarable substance(s), CAS No. to be specified.

For non-declarable substance(s), general names or “Others” are accepted.

*1 Utilize GADSL (Global Automotive Declarable Substance List) to check whether a substance is declarable. GADSL is available at the website, [http://www.gadsl.org/](http://www.gadsl.org/). As for details, refer to *(Supplement II-3) Check Presence of Declarable Substances* and Rule 3.2.1.D of Basic Rules concerning MDS Revisions in IMDS General Rules and Guidelines.


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IMDS *1 is an online system on the Internet.

If you are new for IMDS, completion of Company Registration*2 and obtaining “Company ID” (as recipient information for your supplier) and “User ID*3” (for logging in the system) are necessary. (this can be done online, IDs will be issued immediately)

Basically, all the companies in your supply chain to use IMDS and provide the data according to business flow. *4

Link to IMDS: http://www.mdsystem.com/

*1 IMDS (International Material Data System) : Global data submission system established and used by automotive industries.

*2 Company Registration to be done once per a company. If registration exists for one of your division, no additional registration is needed. If you are uncertain about your company’s registration status, contact IMDS service center.

*3 The person who has registered your company becomes a Company Administrator and can register additional users.

*4 In case your material supplier is not IMDS-adaptive, acquire material ingredient sheet and make a IMDS data on behalf.
The following symbols*1 provided in IMDS are interpreted as follows:

- Part in red ( ), Material in green ( ), Complex Material in yellow ( ), Substance in blue ( )
- Material data sheet describes ingredients and their concentration, to be provided by material manufacturer in principle.
- Component data sheet describes materials and their mass, to be created by part manufacturer in principle.
- Data sheet for a complex part contains components, their quantity and subsidiary materials used in assembly process.

**Flow of data submission or data creation along a commercial flow**

*1 In IMDS, symbols are associated with the names shown right. Be advised that Semi-Component is not a part but complex material. Please be careful not to make any misuse.
I. At first, check sub-part structure and materials *1 of objected item as well as availability of ingredient data in IMDS *2. If not available, request your business partner(s) for submitting IMDS data. *3

- Material maker and part maker to provide Material Datasheet and Part Datasheet respectively and submit them to their client. (Trading company to forward the data *4)

II. Once data comes in, check content and proceed to “accept” or request for correction *5

III. Provide data for Yamaha Motor Group by referring to collected datasheet in IMDS.

IV. Send the datasheet

*1 Make a thorough check even over surface coating or subsidiary materials for assembly.

*2 IMDS standard material datasheet can be utilized when material specification is in accordance with industrial norm.

*3 Upon request for IMDS data submission, inform of your “Company ID” as a recipient ID.

*4 Trading company can ask their material maker to directly send the data to their customer of the objective part.

*5 In case your material supplier is not IMDS-adaptive, acquire material ingredient sheet in Excel or PDF and make an IMDS datasheet on behalf.
Once datasheet received, check its consistency with drawing or material specification. It is particularly important to confirm no lack of items.

- All the sub part*1 registered?
- Surface treatment or subsidiary materials allocated correctly?
- Described in accordance with material specification? (no lack of additives?)

Also, check if IMDS data structure and ID management are consistent with Yamaha requirements shown from the next page.

Example: Drawing

<table>
<thead>
<tr>
<th>IMDS Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item Assy</td>
</tr>
<tr>
<td>Adhesive</td>
</tr>
<tr>
<td>Cover</td>
</tr>
<tr>
<td>Bracket</td>
</tr>
<tr>
<td>Guard</td>
</tr>
</tbody>
</table>

*1 Semi-Component (●) is not a part but complex material. If sub-part is assigned with Semi-Component, request your supplier to replace with Component (●).
Important Points upon Creating Material Datasheet

Thresholds for many of the restricted substances are defined as concentration value in homogeneous material.

- Make sure to create a material datasheet for each homogeneous layer. *1
- Material consisting of 2 or more homogeneous layers should be assigned to complex material (semi-component *2).
- In case 2 or more materials are mixed, create a new material datasheet and specify its mixing ratio.

---

*1. If ingredients of multiple layers are registered homogeneously in a single material datasheet, concentration value of each substance is calculated less than what it should be, which causes a risk of misjudging non-compliance status. Do not register any datasheet created in such a way.

*2. Semi-component is an item which shape is not yet fixed hence needing further cutting, shaping or forming before use, and could have multiple material structure, such as galvanized steel sheet or electric cable.
According to European Union’s REACH Regulation, obligations related to Article*1 are based on a concentration value of objective substance per mass of article (weight %). For adequate calculation, any part (component) datasheet should be created in accordance with the definition of Article by REACH (O5A principle).

- For an item with fixed shape which determines its function, register it as a Component.
- As for paint, grease, adhesive or other subsidiary materials, do not register them as Component.

*1 **Article** means “an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition” (Art. 3.3 REACH). //Source: Automotive Industry Guideline on REACH (AIG) Ver. 4.0 European Automobile Manufacturers Association (ACEA)

According to the principle of **Once an Article, Always an Article**, as known as "O5A“, REACH obligations are applied to each individual article in product / complex part.

*2 Reference: AIG Ver. 4.0 Annex N: Practical Application of the O5A Principle for CL Substances in Articles (ACEA)
If a complex part data is inconsistent with O5A principle and contains regulated substance, its concentration value is unable to be calculated correctly as shown below:

**Data consistent with O5A principle**

![Diagram showing data consistent with O5A principle]

Concentration of regulated substance (wt%) = \( \frac{\text{Mass of regulated substance}}{\text{Mass of Part A}} \)

**Data not consistent with O5A principles**

![Diagram showing data not consistent with O5A principles]

Concentration of regulated substance (wt%) = \( \frac{\text{Mass of regulated substances}}{\text{Mass of the composite part}} \)

Due to smaller denominator, result is too large

Risk of omission of obligation fulfillment

Loss from unnecessary regulatory actions

Due to larger denominator, result is too small

Risk of omission of obligation fulfillment

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Part Number Assignment

- In case Yamaha part numbers of sub-parts are specified in the parts list of Yamaha drawing, register Yamaha part number into the part number field of IMDS datasheet. Make sure that Yamaha part number is the number for delivery being referred in transaction between your company and Yamaha. "1"

- For the purpose of your internal management, you may want to register your internal part number in the IMDS part number field. In this case, apply the following rules:
  ① Create datasheet with your internal part number and separately specify Yamaha part number in “Recipient data” tab upon submission on individual part basis. Send the datasheets one by one."2
  ② Upon inclusion of the items mentioned in ① as sub-parts into a complex part, associate the datasheet submitted to Yamaha (i.e. same ID/Ver.) for the component."3

*1 As for an item without any actual delivery status as an individual part, follow the instructions of the requester .
*2 When forwarding datasheet received from your supplier to Yamaha, specify Yamaha part number in the forwarding copy.
*3 In the case of the above * 2, associate the original datasheet received from your supplier with a sub-part of complex part.
IMDS assigns every datasheet an identification number (ID). Do not create multiple datasheets for the identical part.

A) In case of correction and update on the part with identical part number, apply “version up” and not to change ID.

B) In case of drawing revision with part number change, create a “new datasheet” and change ID.

(For reference) Version of a decimal (e.g.: 1.01, 0.01) means editable state and an integer (e.g.: 1) means released state and un-editable.
Operational Flow till Data Submission
Flow of Operation

Make IMDS datasheet and send it in accordance with the flow described in this page.

I. Request for IMDS data submission to your suppliers

Sub-part and material data available?¹
(except Yamaha-supplied part/material)

Yes

No

I. Request for IMDS data submission to your suppliers

II. IMDS datasheet(s) received?

Yes

II a. Incoming IMDS Data Check

Substance list obtained?²

II b. Create Material Datasheet³

II c. ☆Create Yamaha-supplied material data

No

II. IMDS datasheet(s) received?

Substance list obtained?²

II b. Create Material Datasheet³

II c. ☆Create Yamaha-supplied material data

III. Create Part Datasheet³

III a. Create Part Datasheet³

III b. ☆Create Yamaha-supplied part data

III d. ☆In case of assembly number

Wait for completion of checking at recipient⁴

in process at recipient

Data sheet accepted by recipient?

Complete!

Sections marked with ☆ are Yamaha-specific manners of datasheet handling.

*¹ Subsidiary materials indicated in the drawing e.g. grease, adhesive, sealant, paint mark, etc, need to be collected as well. Material based on “Public norms” do not need to be collected but can use a link to published datasheet in IMDS.

*² SDS (Safety Data Sheet) may not describe all the constituent substances. Be sure to confirm with your supplier to report all substances. In case they do not provide all data because of the “trade secret”, please refer to (Supplement II-3) Check Presence of “GADSL Substances”.

*³ Also refer to Official IMDS User Manual (English) to create a datasheet. (IMDS Information Page → New to IMDS? → Create an MDS)

*⁴ Recipient will normally complete data check within a week.
To use IMDS for the first time as your company, “Company Registration” is required. Refer to the “attached file” on IMDS Information Page → Help → Tutorials


*Company Registration is required only once by each company. You do not have to register if any other division of your company have done.

*Suppliers can use IMDS for free both registration and utilization.

*Note the “Company ID” and “User ID” not to forget it.

Company ID:
User ID:
Preparation: User Registration

The person who registered the company is the Company Administrator and responsible for creating and adding IMDS users for your company*1.

- **Company Administrator:** Authority of supervision given (2 or more recommended)
- **User:** Allowed to create and submit data

*1 As for adding users, refer to “Company Administrator Functions” linked from IMDS FAQ "User Accounts (IDs)".

[Diagram showing roles and responsibilities]
When you have registered, try to login IMDS with your “User ID”.

- Access IMDS (Link to IMDS: http://www.mdsystem.com/)
- Click “Login”
- Enter “User ID” and “Password”, then click “Login”

If you forget the password, click “Request new password”
I. Request for Data Submission to Your Suppliers

At the start of IMDS datasheet creation, check sub-part structure and materials *1 of objectied item followed by checking availability of ingredient data in IMDS *2. If not available, request your business partner(s) for submitting IMDS data. Sub-parts and materials to be disassembled up to your own purchasing level.

For unavailable information, request your supplier(s) for submitting IMDS datasheet.

*1 Make a thorough check even over surface coating or subsidiary materials for assembly.

*2 IMDS standard material datasheet can be utilized when material specification is in accordance with industrial norm.

Sub-Part

Material

Item Assy

Aux. Material

→ Data unavailable

Item 1

Material A

→ Data available

Material B

→ Data unavailable

Item 2 (Purchased)

→ Data available

Item 3 (Purchased)

→ Data unavailable

Request for IMDS datasheet submission for Items w/o data.
I. Request for Data Submission to Your Suppliers

Your suppliers need your IMDS Company ID as well as the part number or material code in order for them to send their datasheet to you. Please advise them as follows:

*Inform of your IMDS Company ID as “Recipient ID” for your supplier.*

(FYI) Example of e-mail which you should send to your suppliers

Subject: Request of material data submission in IMDS

Please submit IMDS datasheet for the following parts (or materials).
In case your company is not IMDS-adaptive, provide a full-material ingredient sheet.
*Since SDS (Safety Data Sheet, ex. MSDS) could not contain all the constituent substances, an ingredient sheet will not be substituted by SDS.

Part’s number (or material code): ABCDE
Recipient Company ID: 123456
Due date: X/X/20XX

Your IMDS Company ID is indicated at the top left corner of the IMDS main page after login. Inform your supplier of your company ID at IMDS submission request.

*1 In case you are a trading company and asking your material maker to directly send the data to your customer, inform of your customer’s company ID, as well as your customer’s instruction as for part number and supplier code. In parallel, inform your customer that your material maker would make direct submission to them.
Yamaha will specify Part Number and Supplier Code when requesting for IMDS data submission. In case of part number revision due to material change, IMDS submission is required in accordance with YAMAHA “Global Quality Assurance Manual for Purchased Products” without any individual request.

Example of IMDS data request from Yamaha

In case of the system-generated correspondence*¹
- Sender: SoC-System@yamaha-motor.co.jp
- Subject: Request for IMDS Submission

IMDS data recipient
*Be sure not to make miss-sending. Each of Yamaha Group company has an unique ID.

Objective items*² will be described in the mail body or in the attached file.
(Tips) In case items are described in the mail body, copy & paste by text on Excel file will keep original table format.

*1 Any changes on recipient email address of your company to be informed us with “Application form IMDS contact.xlsx”. The form is available from responsible buyer of our purchasing division.

*2 Part structure is not described. Data to be created according to actual part structure. Should you need detailed information, inquire to the contact indicated in the email.
II a. Handling of Received IMDS Datasheet

When you receive IMDS datasheet from your suppliers, check the data and accept or reject it according to the check result.

(FYI) You can get e-mail notification from IMDS when you receive a datasheet. Please refer to “Notification from IMDS” in the appendix of this document.

*Always Check the content of data received. (refer to Incoming IMDS Data Check)

- Login to IMDS and click “Function” -> “In Box” -> “MDS”
- Search with “Part/Item No.” and so on and double click the line to open the datasheet
II a. Handling of Received IMDS Datasheet

Check the data consistency. Use system check for reference.

- Click 
  
  → If warning message indicated, it needs to be investigated

  Please refer to the “IMDS Warning Message” in the appendix of this document.

- Click “MDS” and click “Accept” or “Reject” according to the check result

*Substance in red text (filter: GADSL) could be prohibited from being used without condition or under certain conditions. Please refer to “YGKA-119 Management Rules for Environmentally Hazardous Substances” and confirm if the substance can be used.

(FYI) Substance with underline might be prohibited in the future by EU REACH Regulation (Candidate List Substance / a.k.a. Substance of Very High Concern)
Ill b. Create Material Datasheet

If you obtain material data but not by IMDS, create “Material Datasheet”.

* SDS (Safety Data Sheet) may not describe all the constituent substances. Be sure to confirm with your supplier to report all substances. In case they do not provide all data because of the “trade secret”, please refer to 「(Supplement II-3) Check Presence of “GADSL Substances”」

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS No</th>
<th>Portion, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEHP</td>
<td>117-81-7</td>
<td>30-35</td>
</tr>
<tr>
<td>PVC</td>
<td>-</td>
<td>60-70</td>
</tr>
<tr>
<td>Others</td>
<td>-</td>
<td>5-8</td>
</tr>
</tbody>
</table>

Example of material data

Login to IMDS and click IMDS “MDS” -> “New” -> “Datasheet” -> “Material”

*As for Complex material (Semi-Component) and Blended material, refer to “(Supplement II-1) Creation of Complex Material” and (Supplement II-2) Creation of Blended material” respectively.
II b. Create Material Datasheet

- Select the material “Classification” *1 and click “Apply”
- In case of polymer material, select available polymer name *2 and click “OK”

*1 Please refer to the recommendation “IMDS 001a” for the detail of the classification (After login to IMDS, click “Help” -> “Recommendation”)

*2 As for the material code of plastics and rubbers, refer to ISO1043 or JIS K 6899. If unclear, inquire to your material maker.
II b. Create Material Datasheet

- Enter the material “Name” (mandatory), “Trade name” and “Mat. No.” (optional)

*The “Name”, “Trade name” and “Mat. No.” will be used as key word for searching afterwards, so set them at your convenience.

*It is recommended to describe your material control code for “Internal Mat.-No.” in order to avoid confusion of materials.

Set the “Name” for your convenience.

*It is recommended to describe your material control code for “Internal Mat.-No.” in order to avoid confusion of materials.
II b. Create Material Datasheet

Add substance to the material.

- Select the material, then Click 🔍
- Search with “Name / Synonym” or “CAS No.” then select the proper one and click “Apply”

Example of material data

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS No</th>
<th>Portion, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEHP</td>
<td>117-81-7</td>
<td>30-35</td>
</tr>
<tr>
<td>PVC</td>
<td>-</td>
<td>60-70</td>
</tr>
<tr>
<td>Others</td>
<td>-</td>
<td>5-8</td>
</tr>
</tbody>
</table>

Enter “Name / Synonym” or “CAS No.” then click “Search”
*When you search “Others”, enter “CAS No.” as “system”

Select the proper one and click “Apply”
II b. Create Material Datasheet

- Enter the “Portion” of the substance

Repeat the procedure of previous page until all the substance is registered.

Example of material data

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS No</th>
<th>Portion, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEHP</td>
<td>117-81-7</td>
<td>30-35</td>
</tr>
<tr>
<td>PVC</td>
<td>-</td>
<td>60-70</td>
</tr>
<tr>
<td>Others</td>
<td>-</td>
<td>5-8</td>
</tr>
</tbody>
</table>

You can choose 3 types of portion.
- Fix --- precise value
- From to --- minimum to maximum
- Rest ----- automatically calculated from other substances portion

Repeat the procedure of previous page until all the substance is registered.
Next, describe information of person responsible for the datasheet (Contact Person).

- Click “Supplier Data”
- Select “Contact Person”*1

*1 In case “Contact Person” is not shown, request your Company Administrator to register (to add the person as “user”). For details, refer to IMDS FAQ “User Accounts (IDs)” and check “CA Administrative Functions”.
You have completed Data creation. Save the data and run “Error check” function.

- Click  to save the data
- Click  to check the data

→ If error or warning message indicated, it needs to be revised or investigated. Please refer to the “IMDS Warning Message” in the appendix of this document.

- After solving the error, click “MDS” → “Release Internal”

*Substance in red text (filter: GADSL) could be prohibited from being used without condition or under certain conditions. Please refer to “YGK-A-119 Management Rules for Environmentally Hazardous Substances” and confirm if the substance can be used.

(FYI) Substance with underline might be prohibited in the future by EU REACH Regulation (Candidate List Substance / a.k.a. Substance of Very High Concern)
To create “Complex Material”, provide each Material datasheet and associate them as Semi-Component according to the following procedure.

*Complex Material means a material consist of 2 or more homogeneous materials typically formed with multiple layers (e.g. galvanized steel sheet metal, insulated electric wire, etc.). Material datasheet to be created for each homogeneous material.

**Example of Complex Material**

- **Galvanized Steel Sheet**
  - 95% Steel
  - 5% Plating

- **Insulated El. Wire**
  - 60% PVC cover
  - 40% Copper wire

*Ratio (%) to be described based on mass ratio.

- Select “New” followed by “Datasheet”, then “Semicomponent”.

From “MDS” menu, “New” → “Datasheet” → “Semicomponent”
Describe Name etc. for Semi-component, click “Add a Material reference ( )” while Semi-Component icon is highlighted.

In search window, search prepared Material*, then add it and specify mass ratio. *Refer to “II b. Create Material Datasheet”.

Select Material from search window and add it with mass ratio (%).
As for the homogeneous material as a mixture of 2 or more materials such as colored plastic, provide each material data, allocate each material with blending ratio and complete new material datasheet.

Example of Blended Material

- PP (no coloring)
- Blending
- PP (Black)
- Coloring Agent
  - PP(Black)
  - 97% PP(Natural)
  - 3% Black Pigment

Select “New” followed by “Datasheet”, then “Material”.

From “MDS” menu,
“New” → “Datasheet” → “Material”
Describe Name etc. for Semi-component, click “Add a Material reference ( )” while Semi-Component icon is highlighted.

In search window, search prepared Material*, then add it and specify mass ratio. *Refer to “II b. Create Material Datasheet”.

Select Material from search window and add it with mass ratio (%).
If it is difficult to acquire material data from your material supplier for confidentiality reason, then ask them to check whether the substances listed in GADSL* are contained in the material or not. Depending on the status, request them to submit data according to the instruction in next page.

* GADSL (Global Automotive Declarable Substance List):

List of substances that are subject to prohibition or management. This list was established by the GASG (Global Automotive Stakeholders Group) consisting of automakers, automotive parts suppliers, and chemical manufacturers in Japan, Europe, and the U.S., and is revised every year. The list can be downloaded from the website; [http://www.gadsl.org/](http://www.gadsl.org/)

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No</th>
<th>Portion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance A</td>
<td>XXXX-XX-X</td>
<td>○ %</td>
</tr>
<tr>
<td>Substance B</td>
<td>YYYY-YY-Y</td>
<td>□ %</td>
</tr>
<tr>
<td>Substance C</td>
<td>ZZZZ-ZZ-Z</td>
<td>△ %</td>
</tr>
</tbody>
</table>

Request material supplier to check presence of GADSL-listed substances.
For update management, it is recommended that your material makers use IMDS and use the function of “Confidential Substance” (See Appendix).

Example

| Polymer | Main: PA6 | 70～80 % |
| Filler: GF Fibre | 10～15 % |
| Additives: DEHP ZZZ-ZZ-Z | 10 % |
| Others: Trade secret | 5 % |

| Oil | Main: Ester oil | 80～90 % |
| Thickener: Li soap | 5～10 % |
| Additives: MCCP ZZZZ-ZZ-Z | 3 % |
| Others: Trade secret | 2 % |

A) Declarable substances to be specified with CAS No. and portion.

B) General names or “Others” are accepted. (“Others” to be up to 10%)

*1. As for details, refer to Rule 3.2.1.D of Basic Rules concerning MDS Revisions in IMDS General Rules and Guidelines (IMDS 001). For update management, it is recommended that your material makers use IMDS and use the function of “Confidential Substance” (See Appendix).
II c. Create Supplied Material Data

If the objective part uses materials supplied by Yamaha, firstly prepare a datasheet for Yamaha-supplied material in accordance with this chapter, then go to “III a. Create Component Datasheet”.

*Beforehand, check Yamaha material code*1 of the material supplied.

- After logging in to IMDS, select "New", "Module" and "Material" from “MDS“ menu.

*1  In case your customer is Yamaha Motor Co., Ltd. In Japan, the material code is a seven-digit code starting with “G” and is identical to the code used in the actual material supply. (If the code starts with “SG”, then take “S” out and specify 7 digits from “G”. For other Yamaha Group company, confirm with your customer.
Select the appropriate material classification for the type of supplied material from the displayed list. Material classification is defined based on the sort of material (e.g. steel, alloy, plastic etc) and functions.

- Select the appropriate material category and click "Apply"
- When plastic or rubber is selected, select material abbreviation in the separate window.

*Refer to ISO 1043 or JIS K 6899 for material abbreviations of resin and rubber. If you have any questions, please contact the requester of the IMDS data.
When a new datasheet opens, enter the name, etc.

- Enter material name and trade name appropriately.
- Enter given code of supplied material into Internal Mat.-No. (7-digit code starting with G in case of Yamaha Motor Co., Ltd. Japan).

Enter Name and Trade name

Enter given material code of the applicable supplied material from your customer.
In order to define supplied material, add the published material "YAMAHA".

- Click “Add Material” icon.
- A search screen appears. Type "YAMAHA" in Name, check only "published MDSs" in the search scope, uncheck "Recommended Material Data Sheet", then click “Search”.
- Select the published material "YAMAHA" ID: 621439965 and click “Apply”.

Select the published material "YAMAHA" ID: 621439965 and click “Apply”.
II c. Create Supplied Material Data

After adding the published material "YAMAHA", specify concentration as 100% and release the datasheet internally.

- Select portion “Fix" and enter 100%.
- “Release Internal" from “MDS" menu."¹

*¹ Although a warning message comes up, ignore it and release the datasheet internally.
After obtaining / creating material datasheets, create “Component Datasheet”.
In this section, procedure to create a datasheet for a single part is explained. As for Complex Part, proceed to “III b. Create Complex Component” after creating an individual datasheet according to this procedure.

*When creating a part datasheet, make sure to use “Component (  ). Note that Semi-Component (  ) is not for a part but complex material which needs final shaping or forming process.
Enter “Description”, “Part/Item No.” and “Part Weight”

*Any part which has YAMAHA part number should be assigned with dedicated “Part Number that YAMAHA MOTOR Group specifies and is used for transaction.

In case your operation can not be aligned with this concept, describe YAHAMA part number in “Recipient data” page at the step of “IV a. Datasheet Submission” for final data submission.

Enter “Description” and “Part/Item No.”

*YAMAHA Part No. being used for transaction to be specified for Part/Item No.

Enter part weight (either kg, g or mg can be chosen for unit)
Add material to the component.

- Select the component, then click
  (For adding complex material, click “Add semicomponent ( )”)
- Search with “Name” or “Mat.-No.” and check “accepted MDSs”, then click “Search” → Select the proper one and click “Apply”
III a. Create Component Datasheet

- Enter the “Weight” of the material

Repeat the procedure of previous page until all the material is registered.
IMDS standard material datasheet can be utilized when material specification is in accordance with industrial norms. Search a standard material datasheet as follows:

- Enter “Name” and so on
- Check “published MDSs” and “Enable search by supplier”, then click “Search”

### Material Search

<table>
<thead>
<tr>
<th>Name</th>
<th>ID</th>
<th>Version</th>
<th>Date</th>
<th>Language</th>
<th>Norm</th>
<th>Symbol</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM415</td>
<td>Current versions</td>
<td></td>
<td></td>
<td>English</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Check “published MDSs” and “Enable search by supplier” then click “Search”

Public norms datasheet created by “IMDS-Committee” can be used
Next, describe information of person responsible for the datasheet (Contact Person).

- Click “Supplier Data”
- Select “Contact Person”

*1 In case “Contact Person” is not shown, request your Company Administrator to register (to add the person as “user”). For details, refer to IMDS FAQ “User Accounts (IDs)” and check “CA Administrative Functions”.
III a. Create Component Datasheet

You have completed Data creation. Save the data and run “Error check” function.

- Click  to save the data
- Click  to check the data

→ If error or warning message indicated, it needs to be revised or investigated. Please refer to the “IMDS Error Message” in the appendix of this document.

- After solving the error, click “MDS” → “Release Internal”

Error / warning message is indicated if exist.
*As long as the substance data reflects the real composition of finished product, warning message can be ignored.
If the data is inconsistent, for example, lack of ingredient, unfinished product status remained (unreacted substances, etc.), please revise the data.
III b. Create Supplied Part Data

If the objective part uses any part(s) supplied by Yamaha*¹, firstly prepare a datasheet for Yamaha-supplied part in accordance with this chapter, then go to “III c. Create Complex Component Datasheet”.

*Specify the given Yamaha Part Number (being used in transaction) in this datasheet.*²

- Select “New”, “Module” and “Components” from “MDS” menu.
- Enter supplied part information in the part name, part number, and part mass (actual value).

From the "Datasheet" menu, select "New" → "Module" → click "Components".

Enter Yamaha-supplied part information in the part name, part number, and part mass.

*Enter actual value of mass.

*¹ If machining is performed on the rough part provided by Yamaha, create the supplied part datasheet as instructed in this chapter, then proceed to in "III c. Create Complex Component Datasheet".

*² Yamaha-supplied part number is unclear, contact your customer requesting for IMDS data submission.
In order to define supplied material, add the published material "YAMAHA".

- Click “Add Material” icon.
- A search screen appears. Type "YAMAHA" in Name, check only "published MDSs" in the search scope, uncheck "Recommended Material Data Sheet", then click “Search”.
- Select the published material "YAMAHA" ID: 621439965 and click “Apply”.

Select the published material "YAMAHA" ID: 621439965 and click “Apply”. 
After adding the published material "YAMAHA", specify concentration as 100% and release the datasheet internally.

- Enter the same mass with the supplied part.
- "Release Internal" from "MDS" menu.*1

*1 Although a warning message comes up, ignore it and release the datasheet internally.
When creating Complex Part ("Component" in IMDS) datasheet, the assumption is Sub-Part datasheet(s) are already available online.

Here, the procedure for Complex Part with single layer is explained. In case of more layers, repeat this procedure from the lowest level of layers. (Refer to “Datasheet Structure”)

In case of machined part with supplied rough part, create datasheet as follows, too.

- In the same way as “III a. Create Component Datasheet”, specify name, number and mass.

* Even in case of assembled part without using subsidiary material, create component datasheet.
*2 Even in case of machined part without any additional material, create component datasheet.
Add Sub-Part(s) and Material(s).

- While parent part is being highlighted, click either of the icons, depending on which data is intended to add*1.
- Find appropriate datasheet in the search window, then add it followed by entering the number of part used in the respective tree or quantity of material.

*For detailed procedure, refer to “III a. Create Component Datasheet”.

*1 When creating a part datasheet, make sure to use “Component ( )”. Note that Semi-Component ( ) is not for a part but complex material which needs final shaping or forming process.
Repeat the procedure mentioned in the previous page until all the sub-parts and materials are registered, then perform the final step (selecting Contact Person, Error Check *1 and Internal Release).

*Refer to “III a. Create Component Datasheet” for details.

*1 Warning message of “Different types of nodes (component, semi-component or material) are used at the same level.” does not make any problem.
In case of the part with plant-specific assembly number (with middle 5-digit starting with X or Y) *1, just register mass of assembled item and subsidiary material used in the assembly process.
No details of sub-parts are required but add a representative component for consistency of mass. 

Example) Item Assy. ABC-X1234-00-00-80

- In the same way as “Ill a. Create Component Datasheet”, specify name, part number and mass.
- Register subsidiary material used for assembly and specify the amount applied (as for the registration, refer to “Ill a. Create Component Datasheet”).

*1 An assembly with no design drawing but assembly instruction issued by Yamaha plant, for which all sub-parts are supplied by Yamaha.
*2 Even if no subsidiary material applied, create a component datasheet.
III d. Part with Plant-specific Assembly Number

Add a representative component for sub-parts to keep consistency of mass.

1) Calculate difference between the entered part mass and the figure of “Calculated weight per item”.

2) Click and choose “Node“ to add a component for mass adjustment. Enter “YAMAHA” for part name and part number, “1” for quantity and the calculated mass by the above 1) for weight.

3) Click and add published material in the same way as “III b. Create Supplied Part Data” and enter the calculated mass by 1) as weight.

1) Calculate difference between the part mass and "Calculated weight per item". 
   In this example: 500 - 10 = 490 g

2) Add a component for mass adjustment. Enter “YAMAHA” for part name and part number, “1” for quantity and the calculated mass by the above 1) for weight.
   In this example: apply 490 g
   This component represents sum of mass of “Item 1”, “Item 2” and “Fastener”.

3) Add published material in the same way as “III b. Create Supplied Part Data” and enter the calculated mass by 1) as weight.
   In this example: apply 490 g
Complete internal release (choose contact person, conduct error check*¹ and release internal).

*Refer to “IIIA. Create Component Datasheet”.

*¹ Warning message of “Different types of nodes (components, semi-components, materials) are used at the same level.” is accepted. And also, warning on published material "YAMAHA" can be ignored.
Send the created datasheet to the customer who requested.

- Click “Recipient data”, then click "Recipient data".
- Search with “Company ID”*1, then select the proper one and click “Apply”.

Enter “Company ID” according to the “Survey Parts List”
*Each of Yamaha Group company has an unique ID.

*1 As for the Company ID of each YAMAHA MOTOR Group company, refer to “IMDS Recipient Company ID”.

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After Recipient ID is ensured, enter appropriate information into Supplier Code and Part/Item No. and send the datasheet.

- Enter supplier code and part No. (or Recipient’s internal material code).
  *Apply the codes being used for the business between you and YAMAHA.
- Enter the information of the drawing relevant to datasheet creation.
- After the data completion, click “Send” (or “Propose”=send to all the recipients).

Click “Send” or “Propose” after data completion.

Information of the drawing relevant to this datasheet.

Supplier Code and Part No. (or Recipient’s internal material code) being used in your business.

Back to flow chart
Trading company to forward IMDS datasheet as it is.
(Beforehand, complete the step of “II a. Handling of Received IMDS Datasheet”.)
- List the datasheet to be forwarded from “Functions” → “In Box” → “MDS”.
  * For details, refer to “II a. Handling of Received IMDS Datasheet”.
- Click “Forward” from “MDS” menu.
  * Forwarding needs the same procedure as “IV a. Datasheet Submission”*1

*1 Before submission, Contact Person to be selected. Refer to “III a. Create Component Datasheet”.

Click “MDS” → “Forward” → “Forward”
Check the status of your submitted datasheet. If the status is turned to “rejected”, correct the data.

(FYI) You can get e-mail notification from IMDS when your datasheet is rejected. Please refer to “Notification from IMDS” in the appendix of this document.

- Click “ Functions” → “Out Box” → “MDS”
- Sort datasheets out by Part No. etc., then check “Status”.

![Diagram of the process]

Check Status after sorting them out by Part No. etc.
Datasheet with status of “Rejected” to be resubmitted after confirming “Reason for denial” and performing correction as follows:

- Right-click the rejected datasheet and select “Show reject reason” appeared in the pull-down menu *1.
- From “Copy”, select “new version” *2 and correct inadequate data, then re-submit.

*1 In case the reject reason is shown by error code, refer to “(Supplement IV-1) List of "Error Code”.
*2 As for ID / Version of datasheet, refer to “Revision Control of IMDS Datasheet".
## List of “Error Code”

Rejected datasheets that are submitted by June 23, 2019 had “Error Code”. “Text message” has taken over since then.

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
<th>How to manage the error</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC01</td>
<td>Part number or supplier code could be incorrect.</td>
<td>Please check the “Survey Parts List” or communicate with YAMAHA contact.</td>
</tr>
<tr>
<td>EC03</td>
<td>Weight deviation between parent part and sum of sub-components exceeds the IMDS limitation.</td>
<td>Please confirm and revise the weight.</td>
</tr>
<tr>
<td>EC05</td>
<td>There is a datasheet of same part number but the datasheet ID does not match.</td>
<td>To answer with the same part number again, copy as &quot;New version&quot; so that the original datasheet ID can remain.</td>
</tr>
<tr>
<td>EC11</td>
<td>Number of component is less than the “Survey Parts List”.</td>
<td>Please check the “Survey Parts List” and correct the data structure.</td>
</tr>
<tr>
<td>EC12</td>
<td>Sub-part is registered with semi-component is not accepted.</td>
<td>Please register each sub-part as “Component”, in case sub-part is specified in objective parts list.</td>
</tr>
<tr>
<td>WC13</td>
<td>Supplied part is not answered.</td>
<td>In case Yamaha-supplied parts are listed in the objective parts list, please register them adequately according to this manual.</td>
</tr>
<tr>
<td>EC14</td>
<td>The input rule of Yamaha supplied item is not correct.</td>
<td></td>
</tr>
<tr>
<td>EC16</td>
<td>Duplicated part number between parent part and sub-component(s) is not accepted.</td>
<td>Please revise the part number which is duplicated with parent part number.</td>
</tr>
<tr>
<td>EC17</td>
<td>Duplicated part number in multiple sub-component level is not accepted.</td>
<td>Please revise the part number which is duplicated in the sub-parts structure.</td>
</tr>
<tr>
<td>EH01</td>
<td>Answer with semi-component is not accepted.</td>
<td>Please create the datasheet as “Component” for parts survey, and “Material” for material survey.</td>
</tr>
<tr>
<td>EM01</td>
<td>Material code or supplier code could be incorrect.</td>
<td>Please check the “Survey item List” or communicate with YAMAHA contact.</td>
</tr>
<tr>
<td>EM06</td>
<td>There is a datasheet of same material number but the datasheet ID does not match.</td>
<td>To answer with the same material code again, copy as &quot;New version&quot; so that the original datasheet ID can remain.</td>
</tr>
<tr>
<td>ES02</td>
<td>Restricted substance(s) is contained.</td>
<td>Check details by management rules “YGK-A-119” and communicate with YAMAHA contact immediately.</td>
</tr>
<tr>
<td>WS04</td>
<td>This datasheet contains substance(s) which could be restricted according to condition.</td>
<td>Check details by management rules “YGK-A-119”. Please communicate with YAMAHA contact if necessary.</td>
</tr>
<tr>
<td>WA01</td>
<td>Error not mentioned above is included in the data.</td>
<td>Please communicate with YAMAHA contact if necessary.</td>
</tr>
</tbody>
</table>

If the error remains unsolved, consult the contact described in the notification email or this manual.
In case a drawing revision is planned with a new part number and pre-confirmation is needed at YAMAHA MOTOR Group, please provide “Datasheet Report in PDF”. (Unless a new part number is assigned, YAMAHA in-house system cannot distinguish any new datasheet with same part number.)

- After editing the data through “Copy” → “new Datasheet”*¹, create a PDF report through “MDS” → “Create MDS Report” → “Full Report”.

- Print the report and mark the expected revision with a highlighter, then submit it.

---

*¹ Due to change on Part No. expected, datasheet ID to be changed accordingly. As for ID / Version of datasheet, refer to “Revision Control of IMDS Datasheet”.
Appendix
IMDS Warning Messages

IMDS general rules and recommendations are written in “IMDS 001”, and warning message will appear if the data is not exactly aligned with the recommendations.

➢ “Help” → “Recommendation” → “IMDS 001”

Investigate the data if warning messages shown below are indicated when you receive datasheets from your suppliers.

[Frequently happening warning messages]

i. Range of portion may not exceed allowed percentage.

ii. A liquid or a gaseous substance is normally not contained in a solid material.

iii. A material of classification ○ ○ must contain more than □ % substances of the group “△△ ”.

iv. More than 10% not specified substances.

v. A polymer material should have at least two substances attached.
<Warning message>
Range of portion may not exceed allowed percentage.

<Related Rule of Recommendation 001>

4.5.4 Portion (Percentage) Ranges

IMDS requires the user to define the portion of a basic substance used in a material. This portion may be a fix percentage value, a range "from X to Y %", or rest (calculated by IMDS).

<table>
<thead>
<tr>
<th>Rule/Guideline</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule 4.5.4 A</td>
<td>The portion type &quot;range&quot; must be used solely to reflect real variations of a basic substance in a material. Ranges must not be used as a means to avoid declaring the full composition of a material.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rule 4.5.4.B</th>
<th>If the portion type &quot;range&quot; is selected, the following maximum portion ranges apply:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portion: from X % to Y %</td>
<td>Maximum M = Y % - X %</td>
</tr>
<tr>
<td>0 ≤ X ≤ 7.5</td>
<td>M ≤ 3</td>
</tr>
<tr>
<td>7.5 &lt; X ≤ 20</td>
<td>M ≤ 5</td>
</tr>
<tr>
<td>20 &lt; X ≤ 100</td>
<td>M ≤ 10</td>
</tr>
</tbody>
</table>

<How to deal with Warning message>
Basically, ask your supplier to revise portion. Only if the portion reflects the real variations but over the allowed range, accept the data.
<Warning message>

ii. A liquid or a gaseous substance is normally not contained in a solid material.

iii. A material of classification ○○ must contain more than □ % substances of the group “△△”.

<Related Rule of Recommendation 001>

4.4.1 General Information

| Rule 4.4.1.B | A material must be described in its end state. Only basic substances contained in the final material are to be reported (example: cured adhesives or paint coatings are entered without the evaporating solvents). |

4.5.1 General Information

<table>
<thead>
<tr>
<th>Rule/Guideline</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule 4.5.1.A</td>
<td>Basic substances must be entered in the form in which they exist in the material. This means that an elemental breakdown (example: polymers represented by their formulation C, H, N, O) is not allowed.</td>
</tr>
</tbody>
</table>

<How to deal with Warning message>

Check whether the data reflects final state or not (refer to the next page). For example, isn’t surface treatment data answered as its treatment liquid state? Or, aren’t contained elements broken down into each element? or isn’t polymer material answered as monomer substance? Basically, ask your supplier to revise the data. Only if the data reflects the real substance and in final state of product, accept the data.
A material must be described in its final state.

ex. Adhesive: after hardening, Paint: after drying

Substances must be entered in the form in which they exist.

ex. Surface treatment, Polymer, Glass / Ceramics

Surface treatment
Aluminum oxide
- $\text{Al}_2\text{O}_3$
- $\text{Al, O}_2$

Polymer
Poly propylene
- $\text{PP (polymer)}$
- propylene (monomer)

Grass / Ceramics

Glass
- Glass without declarable substances
- $\text{SiO}_2, \text{Al}_2\text{O}_3, \text{B}_2\text{O}_3, \cdots$
iv. More than 10% not specified substances. (“Not specified” are wild card or confidential substances).

v. A polymer material should have at least two substances attached.

Related Rule of Recommendation 001

4.5.3 Jokers/Wildcards (Highly Confidential Substances)

| Rule 4.5.3.E | The sum of confidential substances, including jokers/wildcards for highly confidential substances, must not exceed 10% of a material. If substance ranges are used, the respective maximum values of the ranges are applied for calculating this sum. |

4.4.1 General Information

| Guideline 4.4.1.a | A polymer material (classification 5.x) should have at least two substances attached to it. |

How to deal with Warning message

This warning is usually happened when material manufacturer try to keep their secret. As for the way to keep secret in IMDS datasheet, refer to the next page onward.

iv. : Check with your supplier if Jokers or Wildcards can be replaced by substance with no CAS No.

v. : Usually, polymer material contain additives as antioxidant, UV absorbent, plasticizer, thermos stabilizer and so on. If polymer contains additives, revise the data. Only if it doesn't contain any additives, datasheet with this warning message can be accepted.
IMDS allows datasheet made in a confidential manner.
The criteria for judging the necessity of data disclosure is whether a substance is listed in "GADSL" (Global Automotive Declarable Substances List) or in EU REACH Candidate List (i.e. SVHC).

[What is GADSL?] [http://www.gadsl.org/]
- List of substances already regulated or assessment ongoing for regulation
- Any substances listed in GADSL must be disclosed, if contained in your product for Yamaha.
- Substances not listed in GADSL nor in EU REACH Candidate List can remain confidential.

Substances neither listed in GADSL nor in EU REACH Candidate List are allowed to be registered in IMDS by either way of the followings:
- Register with non-proprietary names
- Mark substance as “Confidential”
- Substitute with “Joker / Wildcards”

*Datasheet must be updated when any substances marked confidential are listed in updated GADSL.
[Use substances with no CAS No.]
- In IMDS, there are substances registered by its general name (refer to the next page).
- The CAS No. is not indicated in order to keep secret.
- These substances are out of “Not specified” substances which may not exceed 10%.

[Confidential]
- Check “Confidential” and the data recipient cannot see neither substance name and CAS No.
- You can get notification from IMDS when “Confidential” substances are listed in GADSL in the future. (need personal setting)

[Wild card]
- Replace the substance (Ex. Misc.)
- When GADSL updated, suppliers to check if the replaced substance is added in the GADSL. “Confidential” is recommended to use instead of “Wild card” because of update convenience.
Major ingredients of polymers are present in IMDS library with no CAS No. (indicated as “-”)

Searchable by keyword for name or select the “Group” as follows:

- basic polymer
- basic polymer impact modified
- thermoplastic elastomer
- basic rubber
- basic durometer

[Searching word for additives]
- filler: ISO 1043–2
- plasticizer, flame retardant: ISO 1043–3
- fiber: man-made fibre

[Searching word for oil, grease]
- basic oil
- thickener

The CAS No. is not indicated in order not to disclose.
In some cases, error message is indicated even though the received data from your supplier is OK, which means component specific errors are existed.

[Component specific errors]

i. Applications have to be selected for all basic substances

ii. Polymeric parts marking question has not been answered

iii. The referenced datasheet is not internally released
Component-specific Error i.

Error message: Applications have to be selected for all basic substances!

- Application ID is defined for certain restricted substances (such as lead) which have both prohibited and permitted application.
- Application ID to be assigned by part manufacturer in each component datasheet.

[How to set “Application”]

➢ Double click the cell, and select the proper one

* ID: 20 (Other applications) is not acceptable because the substances is basically restricted and can be used only for specific applications.
Error message: Polymeric parts marking question has not been answered

- “Parts Marking” need to be selected for the polymer component.

[Select the “Parts Marking”]

- Select the proper one
Component-specific Error iii.

Error message: The referenced datasheet is not internally released
- Referenced datasheet need to be previously “internally released” which means the data is fixed.

[How to revise]
- Right click the data name and click “Edit”, then click “MDS” → “Release Internal”
E-mail notifications from IMDS can be received if you set “Personal Setting”. The following 3 cases are recommended to be set.

- MDS rejected: need data correction
- MDS received: need data checking
- Conf. GADSL / Conf. Candidate List: need data update

[How to set]

- Click “Administration” → “Personal Setting”
- Check which you want to get notification

At least these cases are recommended to be set “on”.

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Contact Information

- **IMDS System or how to input**

  IMDS **American** Service Center supporting English language
  Monday through Friday, 8 a.m. to 5 p.m. (CST)
  phone: (+1) 844 650 4217 / email: imds-helpdesk-english@dxc.com

  IMDS **European** Service Center supporting **English** language
  Monday through Friday, 8 a.m. to 4.30 p.m. (GMT+1)
  phone: (+36) 1 778 9821 / email: imds-helpdesk-english@dxc.com

  IMDS **European** Service Center supporting **French and German** language
  Monday through Friday, 8 a.m. to 4.30 p.m. (GMT+1)
  phone: (+33) 1 57 32 4856 or (+36) 1 778 9821 / email: imds-helpdesk-emea@dxc.com

  IMDS **Chinese** Service Center supporting **Chinese** language
  Monday through Friday, 9:30 a.m. to 12:30 p.m., 1:30 p.m. to 5:00 p.m. BST (GMT+8)
  phone: (+86) 27 87431668 / mail: IMDS-EDS-Helpdesk-China@dxc.com

- **About the content of data**
  YAMAHA Motor CO., LTD. SOC Group
  Phone: (+81) 538 32 9905
  E-mail: env.tech@yamaha-motor.co.jp
<table>
<thead>
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<td>YAMAHA Motor Co., Ltd. Environmental Technology Group</td>
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<td>1.1</td>
<td>Note about data collection (p.6, 12) Note about Mat. No. (p.14) Note about Prohibited substances (p.11, 18) Note about IMDS warning (p.27) Update “How to manage the error” (p.34)</td>
<td>2018/8/30</td>
<td>YAMAHA Motor Co., Ltd. CSR Group</td>
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<td>2</td>
<td>Changed procedure of Datasheet request Added overview section and refined each step for Datasheet handling</td>
<td>2019/4/16</td>
<td>YAMAHA Motor Co., Ltd. SOC Group</td>
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<td>2.1</td>
<td>Added Yamaha group companies (YEJP, Y’s Gear, YMPJ). Relation to YGK-A-119 explained in the background &amp; objective section. EU REACH O5A principle clarified. Added instructions for Yamaha-supplied material/part and part with plant-specific assembly number.</td>
<td>2020/01/08</td>
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