

RENAULT NISSAN ENGINEERING STANDARD
(RNES)

Material Engineering
RNES-B00043 v2.0

RENAULT STANDARD
(GDNormes)
IMDS DOCUMENTATION RULES
FOR RENAULT
SUPPLIERS
80 - 00 - 044 / - - D

NISSAN ENGINEERING
STANDARD
(NES)
Substance data input standard by
IMDS
M0302 [2014-N]

Issued : 2020-3-15

IMPORTANT PART SYMBOL

⋮

Title: IMDS DOCUMENTATION RULES FOR SUPPLIERS

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RENAULT-NISSAN

Important Notices and Disclaimers

- "This document is compilation of RENAULT document No 80-00-044-D and Nissan document No NES_M0302_2014-N
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Foreword

This guide is intended to help the suppliers to make the material and substances declaration that goes with each part or material supplied to Renault or Nissan. The weights, the materials and substances have to be declared according to the RNES B-00027 standard “Prohibited or restricted substances in parts – List and declaration modes” through the IMDS system.

| | | |
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Introduction

The environmental regulatory requirements change quickly and require detailed knowledge of the materials and substances of the parts (“End of Life Vehicles” directive - 2000/53/CE, directive on the type-approval of motor vehicles with regard to their reusability, recyclability and recoverability – 2005/64/CE, REACH regulation 1907/2006). In order to answer to these regulations and to their possible evolutions, Renault and Nissan need to have the materials and substances information available for all the materials and parts that are mounted on its vehicles.

Therefore, Renault and Nissan ask for the list of all the substances, regulated or not, that make up each material of the parts.

1 Scope

IMDS(International Material Data System) documentation regarding all of the production parts for all regions. IMDS data is required to submit for all parts and materials which supplied to Renault and Nissan in time.

In addition, when a change occurs on a part for which IMDS data have already been submitted to Renault or Nissan, the IMDS shall be revised.

- Changes of restriction or declaration on the Renault or Nissan specification RNESB-00027, or regulations. (Example: SVHC substance addition in REACH)
- Changes in part weight
- Changes in material (Include change by sub-supplier)
- Changes in index (Renault specific).



In ANPQP, Renault and Nissan requirement for project under development is to have 100% valid MDSs (material data sheets) until PT1 milestone

2 Normative references

For these normative references the latest version applies.

RNES-B00027 Prohibited or restricted substances in parts – List and declaration modes

RNES-A00001 Material Marking Specifications

Nissan internal standard: NES M0301 Substance Use Restrictions,

Renault internal standards: 00-10-415, 00-10-050.

EC Rules/Directives/Decisions 2000/53/CE, 2005/64/CE, 1907/2006, 2009/425

Other regulations: ISO 1043 / ISO18064/ ISO 1629.

GADSL **G**lobal **A**utomotive **D**eclarable **S**ubstance **L**ist. (www.gadsl.org).

3 Terms and definitions

For the purpose of this standard, the following terms and definitions apply.

IMDS (International Material Data System)

An internet based material and substances data collection system. The IMDS (International Material Data System) is the automobile industry's material and substances data system. IMDS has become a global standard used by almost all of the global OEMs. In IMDS, all materials and substances used for automobile manufacturing are collected, maintained, analyzed and archived. Using the IMDS, it is possible to meet the obligations placed on automobile manufacturers, and thus on their suppliers, by national and international standards, laws and regulations.

For more detail, please refer to the IMDS web site,

www.mdsystem.com

MDS (Material Data Sheet)

A materials and substances declaration file in IMDS.

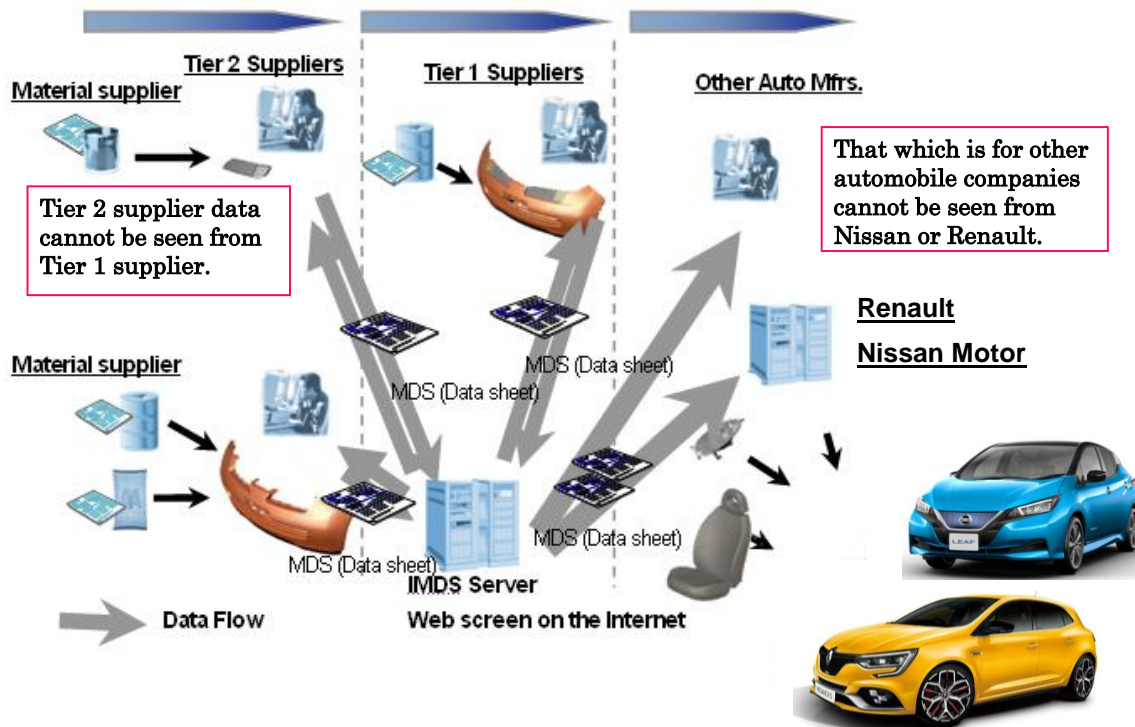


Fig. 1: IMDS data sheet flow

4 Symbols and abbreviations

For the purpose of this standard, the following symbols and abbreviated terms apply.

Homogenous material: a material that is uniform in all the space directions and includes elements that are all alike.

Examples:

- PA 6.6,
- PP-GF30
- Steel 16NC6,
- Side window glass,
- A part protected by a zinc-based anti-corrosion coat is generally made of four homogenous materials:

Part metal

Zinc-based electroplated layer (pure zinc or alloyed zinc)

Passivation layer (based on chromium III for example)

Possible finishing layer (also known as top coat).

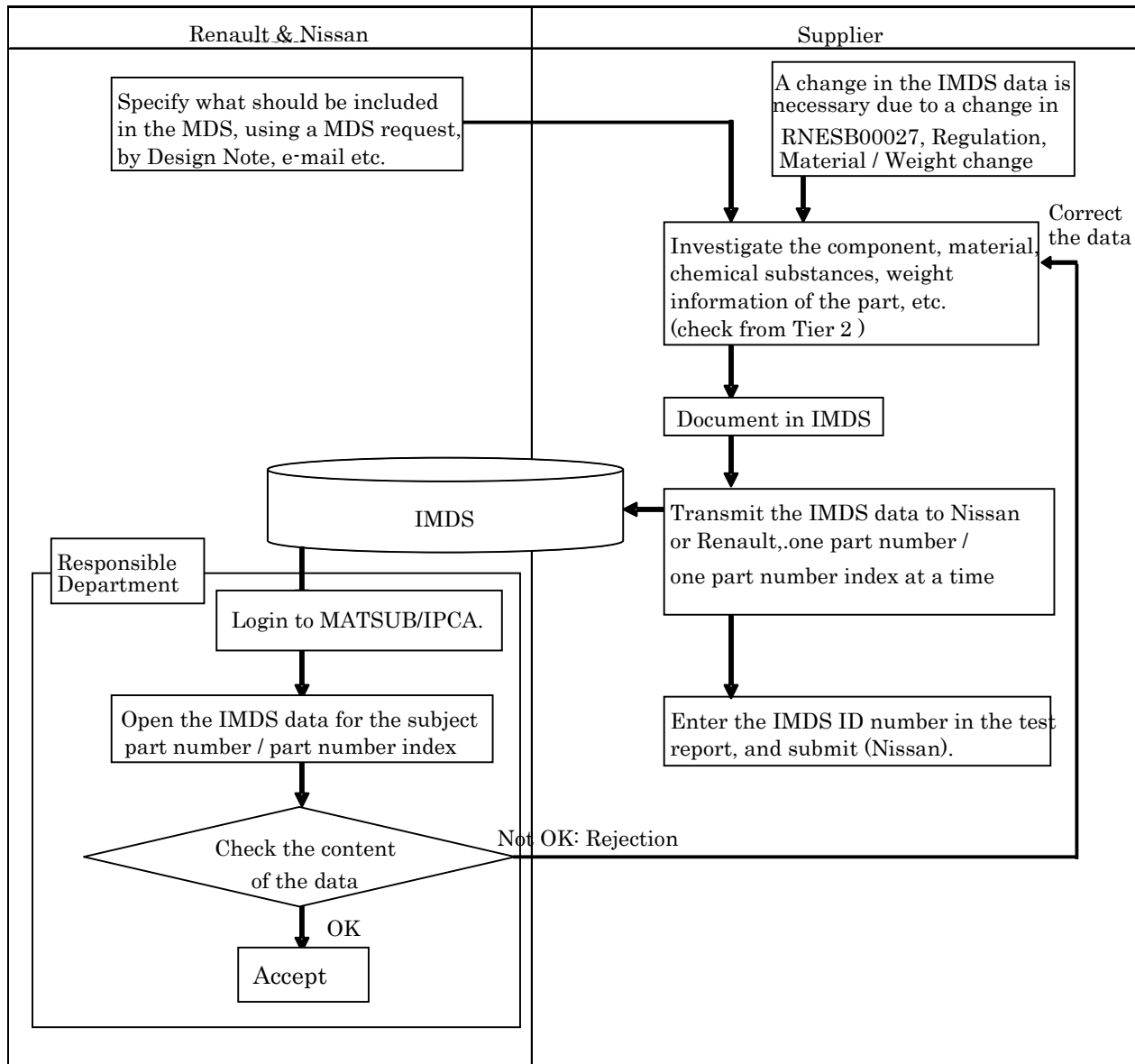
Homogenous material component: constituent item of part made of a homogenous material.

5 Work flow

Suppliers shall submit MDSs according to the work flow below.

MDS shall be submitted until the date of the earlier timing from following 2 cases: 3 months within design release timing, or parts delivery to Renault or Nissan plant. (Specified in ANPQP)

(Or when there has been another instruction from Nissan or Renault, to be by that deadline).



6 IMDS registration

To use IMDS for the first time, the user should ask for a user ID and a password (these accesses are independent from Renault and Nissan).

- If the company is already registered in IMDS: ask the IMDS administrator of the company to create a personal access. The access is strictly personal and Renault's materials and substances declaration process requires a rigorous documentation of the personal data for each user (in particular the e-mail address).
- If the company is not yet registered in IMDS: follow the registration process described in section 2.2 of the IMDS user manual accessible through "New to IMDS?" / "IMDS User Manual". The registration page ("Company Registration") can be directly reached following "New to IMDS?" / "Company Registration" / "Online Registration":

MATERIAL DATA SYSTEM

Login

User ID

Password

Language: English

- User ID forgotten
- Request new password
- Terms of use

Registration

- Register your company
- Tips for your company registration

Help

- Online User Manual
- Contact IMDS Service Center
- IMDS training
- Frequently Asked Questions

Quick References

- How to create a component MDS
- How to create a material MDS

Video Tutorial

- Home and Login Pages
- Landing Page and Search
- Search Results
- MDS Detail Page
- Accept and Reject

Company Registration

Please enter your company data in the following fields. Each field marked with a red asterisk is mandatory.

Company Name *

Street *

Zip or Postal Code *

City *

Mailbox

DUNS Number

Country *

Company Administrator

Enter the Company Administrator's data here. This user is responsible for the administration of your company. He creates organizational units and administers your company's users. THIS NEEDS TO BE AN EMPLOYEE OF YOUR COMPANY AND NOT YOUR CUSTOMER.

Make sure the Company Administrator's e-mail address is correct, because your company registration data will be sent to it.

Since IMDS is an international system, please also include the country dialing code in the phone number.

Last name *

First name *

Telephone No. *

Fax No.

E-Mail Address *

Repeat e-mail Address *

Contact Person

Enter here the Contact Person's data. Each company in IMDS requires a contact to answer questions concerning sent MDS.

Since IMDS is an international system, please also include the country dialing code in the phone number.

Last name *

For any question related to registration, ID, password or connection problems, contact the service center (helpdesk): the phone number and the e-mail addresses for your language/region can be found in the "Help" section through "Contact IMDS Service center".

7 IMDS user manual, training and login

7.1 IMDS information pages

The IMDS information pages can be reached directly from the homepage of IMDS. On the IMDS information pages, the users can find information on the IMDS system evolutions, training, contacts in case of problems and the FAQ or “Frequently Asked Questions” through the “Help” menu:

Help > FAQ

IMDS login

New to IMDS?

- Reading for New Users
- Company Registration
- Create an MDS

FAQ - FREQUENTLY ASKED QUESTIONS

Here you can find questions and answers regarding IMDS content and usage in several categories. To see the content of each category and to read the answer to a question, please click on the category/question to expand the content.

- Legislative Requirements (incl. REACH)
- User Accounts (IDs)
- System Usage
- IMDS Entry
- Product Category Specific
- MDS Ingredients Screen
- Norms and Standards
- IMDS Errors and Warnings
- Communication
- Materials
- Basic Substances
- OEM Specific Information

Here you can download the most recent [IMDS User Manual](#).

Where can I find the European ELV Directive and the latest version of Annex II?

Here you can download the [EU ELV Directive 2000/53/EC](#) and the [latest version of the Annex II \(Version: May 2013\)](#).

Here you can additionally find an [IMDS Steering Committee document](#) on the application changes for your support (Version: October 2013).

7.2 IMDS user manual and training

The “IMDS User Manual” can be downloaded from the IMDS information pages. This reference document describes all the functionalities of the IMDS system. The IMDS manual or instructions for use can be downloaded from “New to IMDS?” (at the bottom of the page) or directly in the right-hand-side column of the page “Reading for New Users”:

IMDS System > New to IMDS > Reading for New Users

IMDS login

New to IMDS?

- Reading for New Users
- Company Registration
- Create an MDS

READING FOR NEW USERS

Recommendations from the Steering Committee

The Steering Committee has developed and posted Recommendations for Data entry and structure. These Recommendations can be found on the **Recommendation** link after login. While they are called "Recommendations", many companies regard them as requirements. It is highly suggested that you follow all recommendations that are related to your product.

04-Jun-2009

Where can I find information on how to create an entry in IMDS?

Here you can find a walk through of [creating a material](#)

Here you can find a walk through of [creating a component](#)

08-Oct-2007

Who should enter data or how should you set up your processes?

This document will allow you to evaluate an [IMDS process](#)

15-Aug-2002

Here you can download the most recent [IMDS User Manual](#).

Here you can [download](#) the User Manual in **Czech** language.

Preferred Language

Although the field prompts are presented in many languages, the IMDS Steering Committee recommends English as the preferred choice for entering data. As the supply chain is made up of international companies, this will facilitate the understanding of each other's material information entered into IMDS.

Moreover it is highly recommended to follow trainings on IMDS. Information on the training sessions are accessible also from "New to IMDS?":

IMDS System > New to IMDS

IMDS login

New to IMDS?

- Reading for New Users
- Company Registration
- Create an MDS

NEW TO IMDS?

Why do I have to use IMDS?

There are many legal requirements throughout the world that require automotive manufacturers (OEM) to report on the content of the vehicle. Additionally, there are recyclability and reuse requirements in some parts of the world. Instead of each automotive manufacturer developing their own system and requirements, a group of them decided in the late '90s to develop a common system to be used throughout the automotive supply chain – IMDS. You are not alone – in the years since IMDS became productive, over 300,000 user IDs in over 100,000 IMDS companies (as of September 2013) were issued. It is the standard for the automotive industry.

All this is free?

The usage of the browser based IMDS is free for the global supply chain.

HPE (former EDS) has developed and hosts the basic IMDS system. We have developed additional services that can be purchased for companies with a large amount of data to be entered or for requests that do not fall within the scope of the helpdesks (e.g. moving data from one IMDS company to another) (see [IMDS Advanced Solutions](#)).

What do I have to do?

First of all, your IMDS experience will go much more smoothly if you read the information given. We have published a wealth of documents that answer common user questions. It is expected that you live up to the Terms of Use that you accept at first login – this includes managing the users in your own company and keeping the contact information up-to-date.

It is also highly recommended that you get [training from a qualified source](#). If you cannot do that, then you need to read the information available:

Minimum Reading List:

- After login, the Recommendations link in Help menu, particularly Recommendation 001 which deals with general structure and change management. Additionally, there are other recommendations that

Please be sure to read all the topics in [Reading for New Users](#) before starting data entry.

Besides, independent consultants offer consulting services to organizations to allow them to efficiently document the materials and substances declarations. This results in subsequent efficiency gains and greatly reduces the time spent on documentation.

7.3 IMDS login

An identifier (ID) and a password are needed in order to use the IMDS system (see section 6 IMDS registration). The Internet address of the homepage of the IMDS system is:

Click on the button **Login** of the homepage in order to access the IMDS login screen. A new Internet page appears with the login screen on the left-hand-side: submit the ID and the password, choose language preference, then click on "Login":

The screenshot shows the IMDS login interface. It features three input fields: 'User ID', 'Password', and 'Language'. The 'Language' field is a dropdown menu currently set to 'English'. Below these fields is a 'Login' button with a key icon. Red arrows point from external boxes labeled 'Language', 'ID', and 'Password' to their respective fields in the form. The 'Login' button is circled in red.

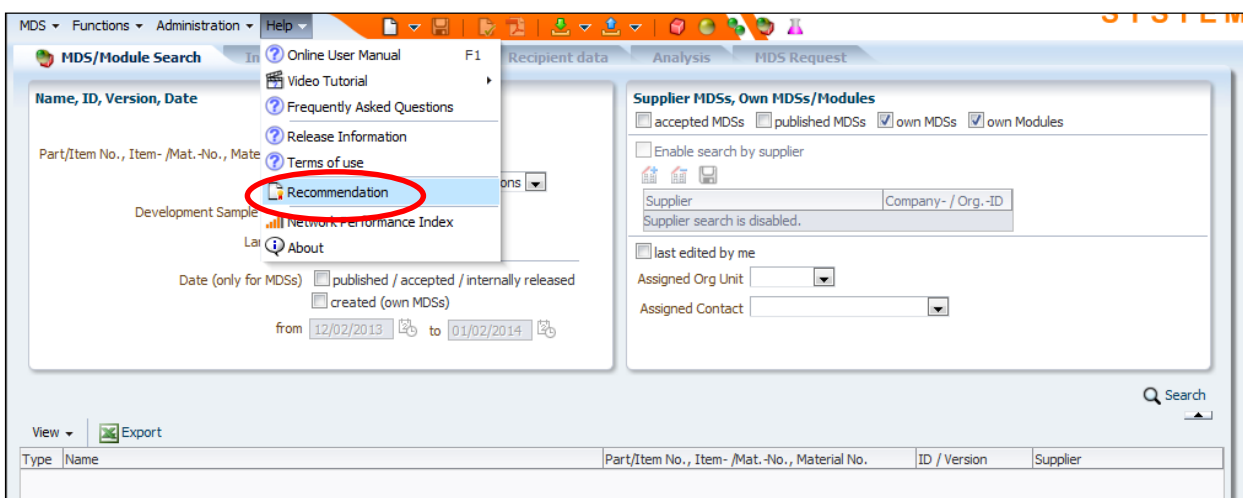
For any question or problem, contact your IMDS service center (IMDS helpdesk or hotline). The service centers phones and e-mail addresses can be found through the help menu on the left-hand-side column for different locations and languages: The service centers answer questions related to IMDS login, use and functionalities. For other problems, in particular related to Renault specificities, write to imds@renault.com.

7.4 IMDS recommendations

IMDS documentation rules are provided for different kind of materials or parts, for example Nonmetallic coatings (IMDS Recommendation 011), Textile (IMDS Recommendation 004), Leather (IMDS Recommendation 005) etc. To read them, login to IMDS and select "Recommendation" in the "Help" menu:



Renault and Nissan DO NOT recommend to use IMDS Recommendation 019 for Electric/Electronic (E/E) components and assemblies due to not being compatible with the REACH 05A 2015 Court of Justice decision. NOTE: During IMDS Steering Committee in September 2019, members voted unanimously to take the decision to deactivate Recommendation 019.



8 Structure of a MDS

A MDS (“Material Data Sheet“) is represented in IMDS by a tree structure. The tree structure of the part or material gives information on the parts sub-components (breakdown of the part supplied to Renault or Nissan into elementary parts) and the composition of each part and material delivered to Renault and Nissan:

The screenshot shows the IMDS software interface. The main window displays a tree structure for 'CHAIN-CAMSHAFT'. The tree is filtered by 'GADSL'. The tree structure is as follows:

- CHAIN-CAMSHAFT
 - 89 Outer Plate (Component)
 - 0.7g SAE 1070
 - 0.0 - 0.01% Carbon
 - 0.0 - 0.01% Manganese
 - 0.0 - 0.01% Phosphorus
 - 0.0 - 0.01% Sulphur
 - Rest 99.98% Iron
 - 90 Intermediate Plate
 - 0.7g SAE 1070





The 'Details' panel for the 'Outer Plate' component shows the following information:

| Common Information | |
|----------------------------|------------------|
| Type | Component (Node) |
| Description | Outer Plate |
| Part/Item No. | 1111111112 |
| Amounts and Weights | |
| Quantity | 89 |
| Measured weight per item | 0.7 g |
| Tolerance +/- | 0.0% |
| Calculated weight per item | 0.7 g |
| Deviation | 0.0% |

The screenshot shows the IMDS software interface for an 'Air filter'. The tree structure is as follows:

- Air filter
 - 1x Cap
 - 1x Body
 - 579,8g PP-GF 30
 - 1x Glued joint
 - 7,0g EPDM
 - 1,0g PUR
 - 5x Fixing screw
 - 0,1g e-plate ZnNi(12-15) (electrodeposited Zinc-Nick)
 - 4,8g C45Pb; C45CPb
 - 2,5mg Chromate film, black ZnNi
 - 3,0mg Sealant / Coating
 - 1x Air cleaner
 - 1x Air inlet
 - 1x Filter base

Three callout boxes provide detailed information about the components:

- Top Callout:** The air filter is a part holding a Renault part number (ex.: part number 7756889441). This is a component .
- Middle Callout:** The cap is a sub-assembly of the air filter: this is a component . No material is directly attached to it because this component is itself made of other components (body, etc.).
- Bottom Callout:** The fixing screw is a sub-assembly of the cap: it is a component . It is made of four homogeneous materials :
 - Screw body*
 - Steel: “C 45 Pb“
 - Anticorrosion treatment*
 - Zinc: “e-plate ZnNi(12-15) (electrodeposited Zinc)”



MDS should have all sub-component parts including imposed parts (Renault & Nissan supplied parts) and specified parts (Renault & Nissan specify specific parts number to be used). Please contact to Renault or

Nissan IMDS contact when you need MDS for imposed part and specified part .



The designations and names must be in English.


It is however tolerated to have designations and names:


- **in French**
- **in French with the translation into another language**
- **in English with the translation into another language.**




The same type of information must be present at the same level of the MDS. In this is not so, the MDS will be rejected.


8.1 Component / Semi-component / Material / Substance

The component, represented by a red cube , is used to describe the part's sub-components, in other words the breakdown of the part into elementary sub-parts. When the component is at the top of the tree structure, it represents the part delivered to Renault or Nissan as it will be in the vehicle.

The semi-component, represented by a yellow sphere , is used to describe a generic supply (or semi-finished product) like a raw crankshaft cap or a hose supplied in rolls. The supply is then reworked in the Renault or Nissan factory: for example the raw cap is machined, the hose is cut to the proper length and so on.

A material, represented by two green spheres , is used to describe the chemical composition of a homogeneous material or mono-material. All the lowest elements include one or several homogeneous materials. A homogeneous material corresponds to a material that is uniform in all the space directions and includes elements that are all alike, for example the material of a cover body, the material of a screw body, each layer of a surface treatment. The breakdown of a part has to be done up to the homogeneous material(s).

A material has to be broken down into substances. The substances to declare are the ones present in the material in its final state. The sum of the portions of the substances associated to the material has to be minimum 90% without the confidential substances and jokers (see section 8.3.1) and 100% with the confidential substances and jokers. The substances for which the declaration is mandatory according to the RNESB-00027 standard must be identifiable: they should not be documented as confidential substances.

The substances, represented by a blue pyramid , are the material constituents. There are chemical elements, component in the natural state or component produced in a manufacturing process, for example iron, carbon and silicon for steel; PP and titanium dioxide for a polypropylene. An exhaustive list defined by IMDS is used as a basis for the declarations. The substances to declare correspond to the substances that stay on the vehicle when it comes out of the

assembly chain. For example, a paint supplier has to declare the composition of the dry paint and a supplier of sheet metal the composition of the degreased sheet metal.

8.2 Materials

8.2.1 Materials directly sent to Renault and Nissan

Renault and Nissan ask their material suppliers to document the breakdown of each material into substances in IMDS and to transmit it to Renault or Nissan. Published Material MDSs (MMDSs) do not guarantee the compliance with the RNESB-00027.

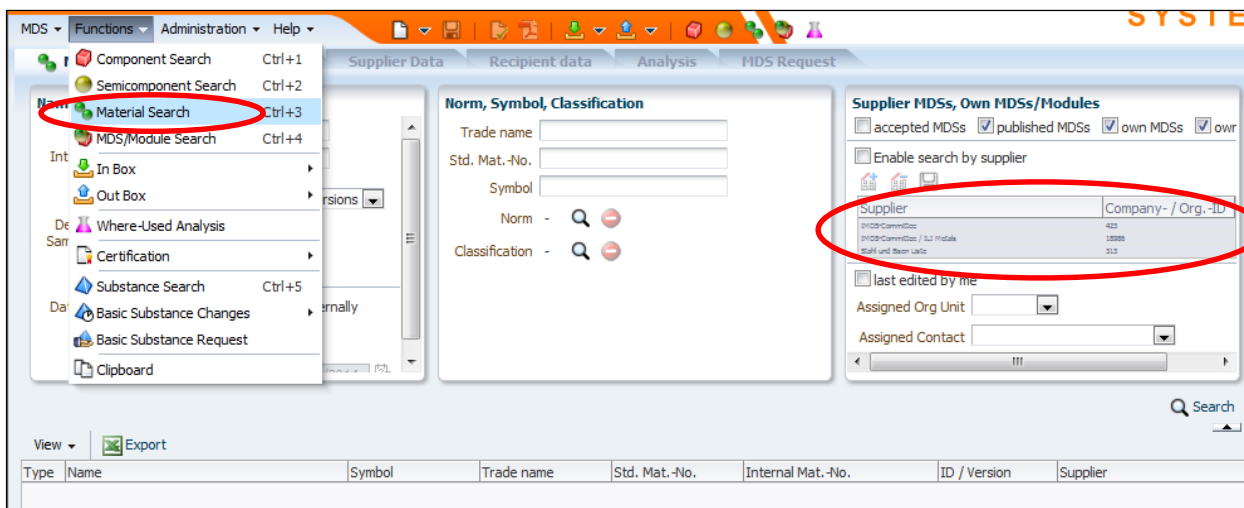
All material suppliers must properly submit to Renault and Nissan final chemical compositions in which the material is gained after polymerization or the removal of solvent.

8.2.2 Materials in components or semi-components MDSs

It is highly advised to use the MMDSs sent by the materials suppliers. Check that the substances declared in the material are the ones used. Some materials are described by Standard MMDS, in particular most of the metallic materials. For those metallic materials, Standard MMDS can be used when the suppliers MMDS are absent.

The MMDS considered as Standard are the one published by:

- IMDS-Committee, company ID: 423
- IMDS-Committee / ILI Metals, company ID: 18986
- Stahl und Eisen Liste, company ID: 313



8.3 Substances declaration

The materials have to be broken down into substances, the breakdown has to include the main material or its elements for an alloy but also the possible additives of all types. The sum of the substances portions associated to the material must be 100%.



In case of unjustified presence of unwanted substances (prohibited substances from the RNESB-00027, REACH annex XIV substances or substances which use is prohibited – see REACH annex XVII), the MDS will be rejected.

8.3.1 Confidential substances and jokers

The substances for which the declaration is not mandatory (Out side of RNES-B00027) can be marked as confidential in a certain limit. For that, tick the box “Confidential” for each substance. These substances are then replaced by a single substance with the name “Confidential substances” for all the other users, except the users that have visibility into the company or designated as “Trust users” for the users outside of the company. It is the company administrator that gives the visibility rights inside and outside of the company.

The “joker” or “wildcard” substances do not allow to define specific substances. Their use also has to be limited (see IMDS recommendation 001, how to access see section TBC).

The sum of the confidential and / or joker substances must not represent more than 10% of the material in weight.

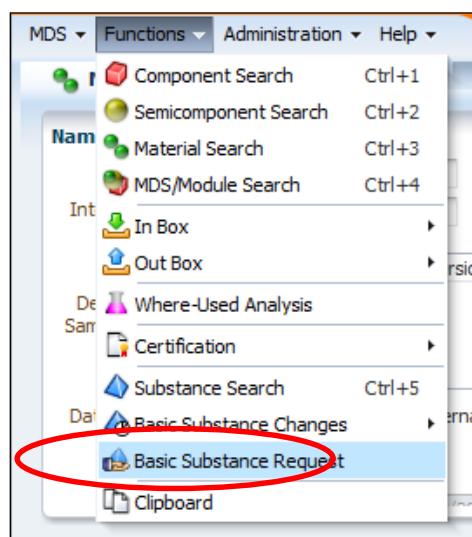
Note: Be careful: the confidential and “joker” substances will not ensure long term material conformity. You will often have to check or update the MDSs that include confidential and/or joker substances.



In case of confidential and/or joker substances above 10% in weight in the material, the MDS will be rejected.

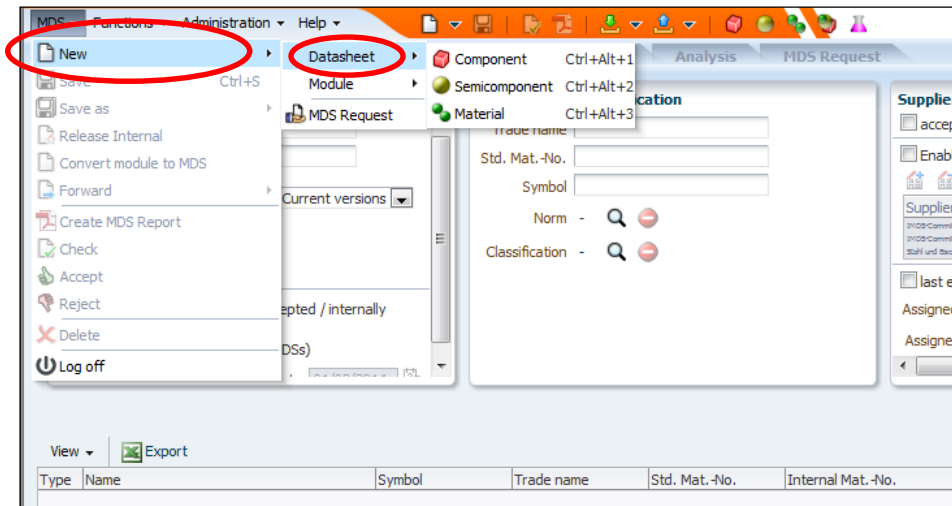
8.3.2 Addition of new substances

The IMDS basic substances list is managed by the system supplier DXC Technology. A user cannot add a substance by himself or herself. If a substance is not present in IMDS, it is possible to ask for its creation to your IMDS service center or through the menu “Basic Substance Request”:



9 Creation of a MDS

After login, a MDS can be created by choosing in the drop-down menu “MDS”, then “New”, then “Datasheet” (a “Module” cannot be transmitted to Renault or Nissan). Three MDS types can then be chosen: “Component”, “Semi component” or “Material”:



Following are the basic steps for making a MDS. Detail of each procedure are indicated in the following Chapters 9~11.

1. Login
2. Registration of material (Chapters 9 and 10)
 - Material data making
 - Selection of the IMDS material classification
 - Making of chemical substance data
3. Component/semi-component making (Chapter 11)
 - Making of the component/semi-component data
 - Add material data to a semi-component and component
 - Input of recycled information
 - Input of application code

9.1 Documentation rules for material data

Documentation method with regard to each input item.

The respective inputs to IMDS shall be performed as follows.

- Items that are Mandatory must be provided without exception.
- Only Western alphanumeric characters shall be input in IMDS.
- The input language shall be English only, the input of other languages is not allowed.

MDS/Module Search | Ingredients * | Supplier Data * | Recipient data * | Analysis | MDS Request

Filter: GADSL | Material language: English

PA66 Details

Common Information

Type: Material (own MDS)
 ID / Version: 905232582 / 0.01
 Node ID: 905232582
 Node count: 1
 MDS Supplier: Ren Supplier
 Name: PA66 *
 Trade name:
 Internal Mat.-No.:
 Preliminary MDS:

Dates

1 Create Date: 10/12/2016
 2
 3 Check/Release Date: not available

Material Information

Std. Mat.-No.:
 Symbol: PA66*
 Classification: 5.1.a filled Thermoplastics*
 Norms / Standards:
 5
 6
 7

| Company | Norm | Norm Code |
|---------|------|-----------|
| - | | |

Supplier:
 8
 9
 10

Remark

Do not put confidential information in this field, because it will be visible in the supply chain.
 Remark:
 ?

For polymers and elastomers the symbol has to be defined. The declaration of the symbols of polymers and elastomers is very important for Renault and Nissan. The symbol has to be compliant with the current ISO standard and be identical with the marking that is on the drawing. IMDS proposes a drop-down menu that allows reference to the ISO 1043, 18064 and 1629 standards, possibly completed by using the field "Composed symbol".

The symbols are mandatory for the following material classifications:

- 5.1.a filled Thermoplastics
- 5.1.b unfilled Thermoplastics
- 5.2 Thermoplastic elastomers
- 5.3 Elastomers / elastomeric compounds.

MDS - MATERIAL DATA SYSTEM
 MDS Supplier: RENAULT

Composition of the material symbol

The selected material classification permits creation of Name and Symbol field entries using dropdown selections derived from the IMDS Basic Polymer List. Therefore please select the symbols/abbreviated terms suitable for the material.

Classification: filled Thermoplastics

Basic polymers ISO 1043-1

Fillers/reinforcing materials ISO 1043-2 %

Plasticizers ISO 1043-3 (optional)

Flame retardants ISO 1043-4 (optional)

Composed symbol:

It is also possible to adapt the symbol manually (lowermost input field). This is necessary for materials with more than one filler (e. g. glassfibre GF and mineral powder MD). Example: PA6-(GF15+MD10); here you can add "(...+MD10)" manually.

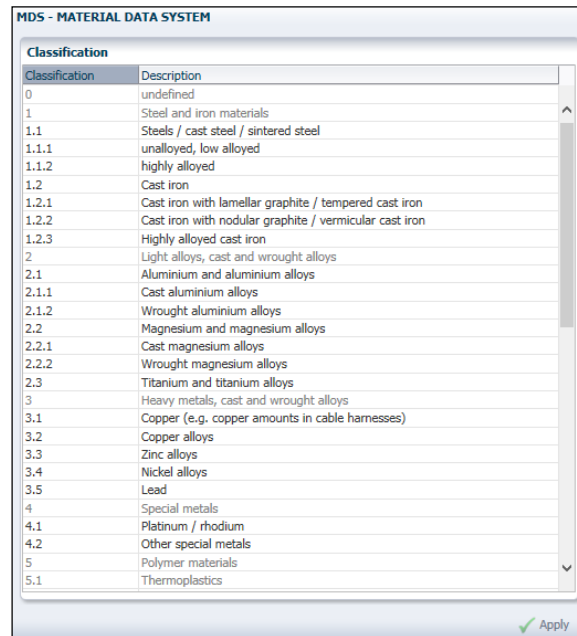
OK

| No. | Data Item | Input Requirements | How to Input Data | Input Examples |
|-----|-------------------|--|---|------------------------------------|
| | | (Mandatory/Optional) | | |
| 1 | Name | Mandatory | This is not the generic material name. Input the symbol or code, etc. assigned in standards which define the material. (Please refer to Annex I to IMDS Recommendation 001). Please note that data input must be in English. | STM-C 540, Al-Si12, PA66, EPDM etc |
| 2 | Trade name | Optional | Input the trade name of the material. It corresponds to the commercial reference of the material. Necessary for Renault. | AH452V-5623 etc |
| 3 | Internal Mat. No. | Optional | Input the material grade, or code, etc. established by your company. | SP780 1.2057 etc |
| 4 | Preliminary MDS | Mandatory (Do not tick) | Do not tick this box. If the box is ticked, get error at transmission to Renault and Nissan | |
| 5 | Standard Mat. No. | Mandatory | For metals, input the metal number defined by public standard such as EN10027; otherwise, input the symbol, grade, or code, etc. assigned in other public norms/standards. | EN-JN2039 etc |
| 6 | Symbol | Mandatory for Plastic/ elastomer in case of materials classification of 5.1.a, 5.2b, 5.2, 5.3 Optional for other Plastic/ elastomer | For polymer materials such as plastics and elastomers, etc., input the symbol based on ISO 1043, ISO 1629, ISO 18064, and RNES-A00001 Material Marking Specifications | PP, ABS, ACM PP-GF30 etc |
| 7 | Classification | Mandatory | Referring to Table 1 in Annex I to IMDS Recommendation 001 select the relevant material classification. | 1.1 , 2.1.1 etc. |
| 8 | Norms/Standards | Optional | Select the public norm/standard (JIS, ISO etc.) which determines the name and standard material number and input the norm/standard number. | ISO 1043 JIS G 3135, etc. |
| | In house Norms | Optional | Input the Renault or Nissan Engineering standard number which determines the name and internal material number. | RNES, GD Norm NES |
| 9 | Supplier | Optional | Input the name of the material supplier who supplies the relevant material (do not input name of a trade company). | Dupont, BASF etc |
| 10 | Remark | Optional | Please state any other matter which should be reported to Nissan or Renault. It must be in English. | |

Table 1

IMDS material classification table

The table below shows the IMDS material classification and example of description. Selection of the grey-colored area is not allowed. Please refer Annex I to IMDS Recommendation 001 as well.




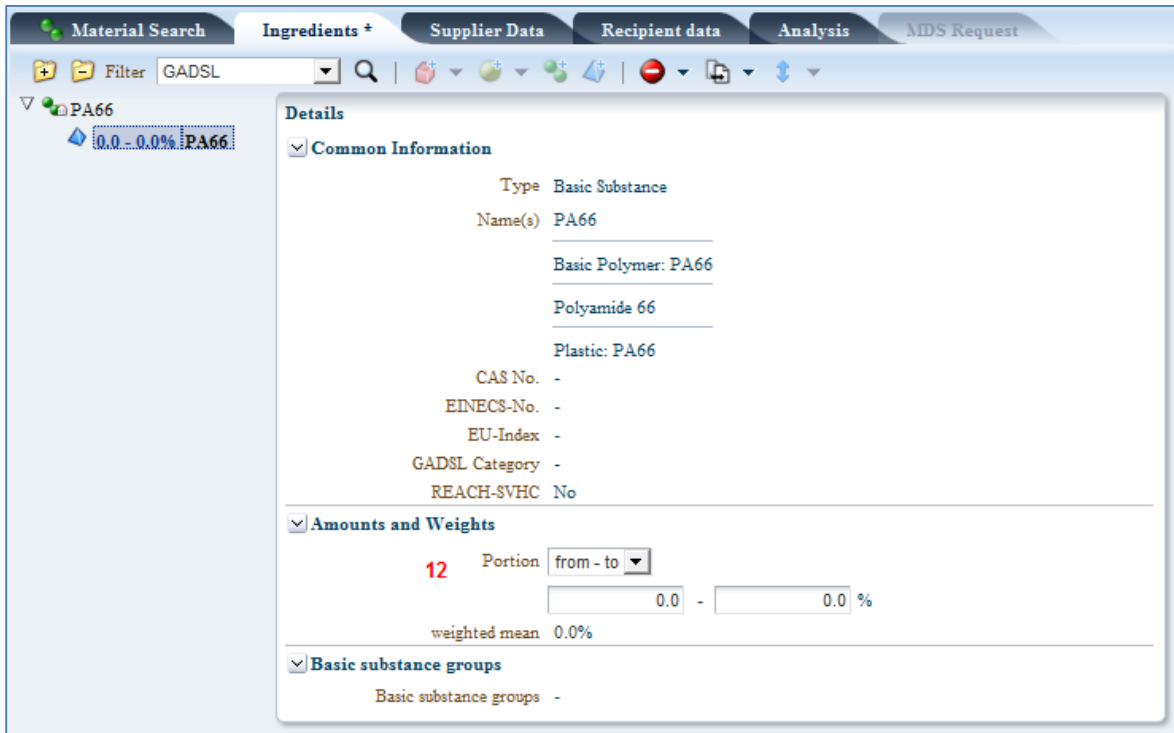
| Classification number | Material classification in IMDS | Material (example) |
|-----------------------|--|---|
| 0 | Undefined | Do not select |
| 1 | Steel and iron materials | Do not select |
| 1.1 | Steels / cast steel / sintered steel | Use only when classifications 1.1.1 or 1.1.2 are unsuitable. SP220, S45C etc |
| 1.1.1 | unalloyed, low alloyed | |
| 1.1.2 | highly alloyed | MCB240H |
| 1.2 | Cast iron | Use only when classifications 1.2.1, 1.2.2 or 1.2.3 are unsuitable |
| 1.2.1 | Cast iron with lamellar graphite / tempered cast iron | FCA, FCMP440 |
| 1.2.2 | Cast iron with nodular graphite / vermicular cast iron | FCD450 |
| 1.2.3 | Highly alloyed cast iron | EN-GJSA-XNiCr20-2 |
| 2 | Light alloys, cast and wrought alloys | Do not select |
| 2.1 | Aluminium and aluminium alloys | Use only when classifications 2.1.1 or 2.1.2 are not suitable |
| 2.1.1 | Cast aluminium alloys | AC4CH, ADC12 |
| 2.1.2 | Wrought aluminium alloys | A6061-T6 |
| 2.2 | Magnesium and magnesium alloys | |
| 2.2.1 | Cast magnesium alloys | AM60B |
| 2.2.2 | Wrought magnesium alloys | Class2 (Another name: MGA2) |
| 2.3 | Titanium and titanium alloys | Unalloyed titanium (Grade 3) TTH480 |
| 3 | Heavy metals, cast and wrought alloys | Do not select |
| 3.1 | Copper (e.g. copper amounts in cable harnesses) | C1100P |
| 3.2 | Copper alloys | CN6A83 |
| 3.3 | Zinc alloys | ZDC2 |
| 3.4 | Nickel alloys | Nickel alloy (ACICZ-100) |
| 3.5 | Lead | Battery lead PEPb-1 |

| Classification number | Material classification in IMDS (English) | Material (example) |
|-----------------------|---|--|
| 4 | Special metals | Do not select |
| 4.1 | Platinum / rhodium | Refined platinum (99, 95) Pt |
| 4.2 | Other special Metals | Semiconductors (semicon) such as gold (Au), silver (Ag), tungsten(VWW1C), silicon metalloid(Msi1), solder, tin(Sn), Si/GaAs, wafer |
| 5 | Polymer materials | Do not select |
| 5.1 | Thermoplastics | Do not select |

| | | |
|-------|--|---|
| 5.1.a | Filled Thermoplastics | ABS, AES, ASA, EVOH, LCP, PA6, PA66, PBT, PC, PE, PEEK, PET, PMMA, POM, PP, PPS, PTFE, PVC Example of filling materials C and CF: Carbon G and GF: Glass M and MD: Metallic mineral T and TD: Talc |
| 5.1.b | Unfilled Thermoplastics | ABS, AES, ASA, EVOH, LCP, PA6, PA66, PBT, PC, PE, PEEK, PET, PMMA, POM, PP, PPS, PTFE, PVC |
| 5.2 | Thermoplastic elastomers | TPO, TPU |
| 5.3 | Elastomers / elastomeric compounds | NBR, SBR, EPDM, EPM, ACM, ECO |
| 5.4 | Duromers | Use only when classifications 5.4.1, 5.4.2 or 5.4.3 are unsuitable. |
| 5.4.1 | Polyurethane | PUR |
| 5.4.2 | Unsaturated polyester | UP resin |
| 5.4.3 | Other duromers | Epoxy resin, melamine resin, phenol resin |
| 5.5 | Polymeric compounds (e.g. inseparable laminated trim parts) | Do not select |
| 5.5.1 | Plastics (in polymeric compounds) | — |
| 5.5.2 | Textiles (in polymeric compounds) | Aramid fiber, polyester fiber, polyacrylic fiber |
| 6 | Process polymers | Do not select |
| 6.1 | Lacquers | Lacquer coating, coloring agent, final coating, powder coating |
| 6.2 | Adhesives, sealants | Adhesive, hot melt adhesive, adhesion promoter, glue, die adhesive |
| 6.3 | Underseal | Sealer |
| 7 | Other materials and material compounds (scope of mixture) | Do not select |
| 7.1 | Modified organic natural materials (e.g. leather, wood, cardboard, c...) | Leather, wood, specific board material, chip board, fiberboard, paper, cardboard, cotton |
| 7.2 | Ceramics / glass | PCB ceramic, glass fiber, metallic oxide, ferrite |
| 7.3 | Other compounds (e.g. friction linings) | Friction lining, mineral |
| 8 | Electronics / electrics | Do not select |
| 8.1 | Electronics (e.g. pc boards, displays) | Display material, and materials of electronic components that cannot be assigned to the classifications noted above. Solder is classified based on its composition. |
| 8.2 | Electrics | — |
| 9. | Fuels and auxiliary means | Do not select |
| 9.1 | Fuels | — |
| 9.2 | Lubricants | Oil, grease, fats and oils, wax, MoS, synthetic agent |
| 9.3 | Brake fluid | DOT3 brake fluid |
| 9.4 | Coolant / other glycols | Ethylene glycol |
| 9.5 | Refrigerant | R134A, carbon dioxide |
| 9.6 | Washing water, battery acids | — |
| 9.7 | Preservative | Rust preventing oil |
| 9.8 | Other fuels and auxiliary means | Filling gas, flammable composite material |

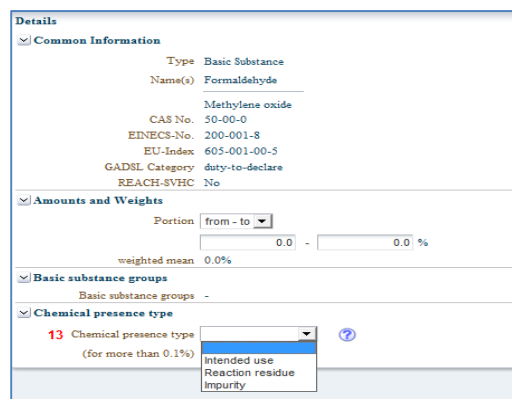
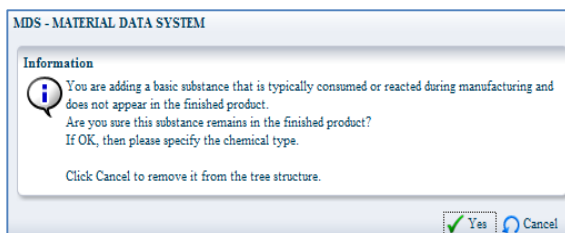
9.2 Documentation rules for substance data

Add the substances to the material by clicking on the icon  and document each weight portion with respect to the material. The sum of the portions of all the substances associated to the material must be equal to 100%. For the polymers, all the additives and residues of process substances expected or likely to be present in the finished product must be declared: colouring, flame retardant or demoulding agents, trace of catalyst or monomer, etc.:



| No. | Data Item | Input Requirements | How to Input Data |
|-----|-----------|----------------------|---|
| | | (Mandatory/Optional) | |
| 12 | Portion | Mandatory | Input the design content ratio. Select one of the options from "Fix", "From ... to", "rest". (%) If "From ... to" or "Fix" is selected, the ratio must be input. |

Input rule for Chemical Presence Type



| | Data Item | Input Requirements | How to Input Data |
|--|-----------|----------------------|-------------------|
| | | (Mandatory/Optional) | |


| | | | |
|----|------------------------|---|--|
| 13 | Chemical Presence Type | Mandatory (When input is required by IMDS system) | If this substance remains in the finished product, select the chemical type. |
|----|------------------------|---|--|

9.3 Documentation rules for component / semi-component

Note: before creating a component / semi-component type MDS, make sure that all the materials to attach already have a material MDS or MMDS:

- a material type MDS from the material supplier.
- an internal material type MDS that has to be created before-hand for the internally manufactured materials. In that case document the different tabs and release it internally first (see section 5.3.).
- a standard material type MDS (see paragraph 2.3.2.).

When creating component data

Component 

at the top of the tree-structure

Details

Common Information

Type Component (own MDS)

ID / Version 580844174 / 0.01

Node ID 580844174

Node count 1

MDS Supplier RENAULT

Description Component_580844174 * 1

Part/Item No. 2

Preliminary MDS 3

Dates

Create Date 3/7/2016 ?


Check/Release Date not available ? Recommendation

Amounts and Weights

Measured weight per item 0.0 g * 4

Calculated weight per item 0.0 g


Deviation 0.0% ?

Sub-component 

with no existing MDS

Details

Common Information

Type Component (Node) 

Description * 1

Part/Item No. 2




Amounts and Weights

Quantity 0 * 5

Measured weight per item 0.0 g * 4

Calculated weight per item 0.0 g


Deviation 0.0% ?

Sub-component   

with an existing MDS

Details

Common Information

Type Component (published MDS) 

ID / Version 2410414 / 1

Node ID 2410414

MDS Supplier Resinoid Engineering

Description Commutator

Part/Item No. 108-017-01

Preliminary MDS Yes Warning! If you tick the box, this MDS will be a preliminary version. You will need to send later a final version.

Dates

Create Date 1/24/2003 ?

Check/Release Date 1/24/2003 ? Recommendation

Amounts and Weights


Quantity 0 5

Measured weight per item 21.05 g


Calculated weight per item 21.05 g

Deviation 0.0% ?

When creating Semi-component data

Semi-component 

at the top of the tree structure

Sub-semi-component 

with no existing MDS: attachment to a component

| No. | Data Item | Input Requirements | How to Input Data | Input Examples |
|-----|--|---|--|-----------------------|
| | | (Mandatory/Optional) | | |
| 1 | Description/ Article Name | Mandatory | Input the Part Name (designation) indicated in the drawing or parts name as specified in the Parts List provided by Renault & Nissan. It must be in English. | Air filter etc |
| 2 | Part/Item No. Item- /Mat.-No | -Mandatory at the top of the tree-structure Otherwise: optional | Input the Part No. indicated in the Renault & Nissan drawing. (Regarding a sub component/sub-semi-component, input the part number specified in the drawing.) When not shown in the drawing, input the internal Part/Item No. assigned by the Supplier. Input the Part No. indicated in the Renault & Nissan drawing without space or hyphen in between the part number. (e.g. NG:40700-5663R GOOD: 407005663R) | 8200123456 etc |
| 3 | Preliminary MDS | Mandatory (Do not tick) | Do not tick this box. If the box is ticked, get error at transmission to Renault and Nissan | - |
| 4 | Measured weight per item /Specific weight | Mandatory | Input actual measured weight / specific weight and select appropriate weight / specific weight unit. If measured weight is not available, design weight specified in the drawing may be used. | 1500[g] etc |
| 5 | Quantity | Mandatory | Number of times the sub-element is present in the part | 3 |
| 6 | Portion | Mandatory | Input the part of the weight of the sub-semi-component in the weight of the component or the semi-component to which it is attached (actual if available, design otherwise) | |

When entering additional material to components :**Recyclate**

There is a section Recyclate. “You have to select ‘Yes’ or ‘No’ from the list: Does the material contain recyclate?” If you select ‘Yes’, the box changes and is editable:

Recyclate

Does the material contain recyclate?

Content of post-industrial/pre-consumer recyclate (see ISO 14021)
 Post-Industrial Recyclate that has been diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials, such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it (home scrap recycling)

- %

Content of post consumer recyclate (see ISO 14021)
 Post-Consumer Recyclate has been generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product which can no longer be used for its intended purpose. This includes returns of material from the distribution chain

- %

Leaving the question unanswered will cause an error for Materials of classification 5 weighing more than 5 g.

Another name for Recyclate is Recycled Content. In some areas of the world, there are requirements that a certain portion of the material be from recycled content.

Post Industrial recyclate is recycled content from industry. Post-consumer recyclate is recycled content from consumer waste. The definitions used for post-industrial and post-consumer recyclate are from the ISO 14021 definitions that are commonly used in many industries. If you have recycled content, we highly recommend entering it here.

Recyclate information may be entered for Material MDSs of classification 1,2,3,4,or 5, being referenced in a semi-component or component. If the MDS recipient is an OEM a “Modify Recyclate Information” section is available under Recipient Data. The values in this section are pre-populated with the values of the Material MDS in the context of its parent MDS(component or semi-component) in the tree. The Tier1 supplier may overwrite the recyclate values as recipient-specific data via pop-up menu. A reset will allow resetting to the original values from the Material MDS reference in the tree. An ‘Apply to all recipient OEM’s is available in this screen so changes may be added to the company-specific data of all OEMs in the recipient list of this MDS. These values exist in parallel to the original values in the (referenced) Material MDS. This option is available even when the Material MDS provider indicates no recyclate is used. The difference between the minimum value and the Maximum Value may not exceed a threshold value of 20 percentage points (E.g. 10%-30% is valid, 10%-31% is not valid).

There exist three ERROR-checks on recyclate. The check procedure verifies if the recyclate entries being made in the recipient-specific area by Tier1 supplier comply with the existing rules. For a reference in the MDS with ERROR, the entry in the recipient-specific screen can be overwritten and corrected.



Renault and Nissan ask to the suppliers to declare all recycled materials. The declaration of recycled fibers used for soft parts (carpet, insulators...) is also to be considered. (i.e. PET fiber : material classification 5.1b)

Application code

The “Application“ box appears when a substance used in the material is covered by the 2000/53/CE directive: lead and lead compounds, hexavalent chromium salts, mercury and mercury compounds, cadmium and cadmium compounds. This box allows precise declaration of substances that benefit from exemptions for certain use cases. Refer to the applicable 2000/53/CE directive:

<Reference> 2000/53/CE directive

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv%3AOJ.L_.2016.128.01.0004.01.ENG

IMDS proposes a list of applications codes that can be used for the substance: choose the proper application code. Please refer Automotive Industry Interpretation Guide for ELV Annex II in order to identify Lead in solder or electrical component. Select the application code “Other application (potentially prohibited)” when the other application codes proposed are not relevant. Be aware in that case the substance use is not allowed and the MDS will be rejected by Renault and Nissan. When an application code is inputted to IMDS, all suppliers must input LATEST application code, not old one. Otherwise, the application code which suppliers submit to will be rejected by Renault and Nissan.

<Reference> Automotive Industry Interpretation Guide for ELV Annex II

https://public.mdssystem.com/documents/10906/17094/imds_and_technical_definitions_for_elv_exemptions.pdf/87f2bed7-4f98-4ccb-82bd-bc4ed3e099a0

The application code “Concentration within GADSL limits“ corresponds to the concentration allowed in the annex II of the directive 2000/53/CE, that is when the homogeneous material contains less than 0.1% of lead, hexavalent chromium or mercury or less than 0.01 % of cadmium.



Make sure to fill properly the “Application“ box. In case of invalid application code, the MDS will be rejected.

Details Material language English

Common Information

Type: Material (own MDS) ✎ ✎
 ID / Version: 31839468 / 0.01
 Node ID: 31839468
 MDS Supplier: RENAULT
 Name: XC48
 Trade name: RDS6Pve/ve ✎
 Internal Mat.-No.: -
 Preliminary MDS: No
 I have declared all GADSL substances: -

Dates

Create Date: 9/22/2005 ?
 Check/Release Date: not available ? Recommendation

Amounts and Weights

14 Weight: g

Material Information

Std. Mat.-No.: -
 Symbol: XC48
 Classification: 1.1 Steels / cast steel / sintered steel
 Norms / Standards: -
 Supplier: -

Recyclate

Does the material contain recyclate? ?

16 Content of post-industrial/pre-consumer recyclate (see ISO 14021)
 Post-Industrial Recyclate that has been diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials, such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it (home scrap recycling).
 - %

17 Content of post consumer recyclate (see ISO 14021)
 Post-Consumer Recyclate has been generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product which can no longer be used for its intended purpose. This includes returns of material from the distribution chain.
 - %

Application

18 Component: Component_580854498
 Application:

| Basic Substance | % (MAX) | Application [ID] |
|-----------------|---------|--|
| Lead | 0.2 | Alloying element in steel for machining purposes or galvanised steel [1] |

Remark

Remark: - ?

15

MDS - MATERIAL DATA SYSTEM

Application

Component: Component_580854498
 Material: XC48
 Basic Substance: Lead
 Portion: 0.2 % (MAX)

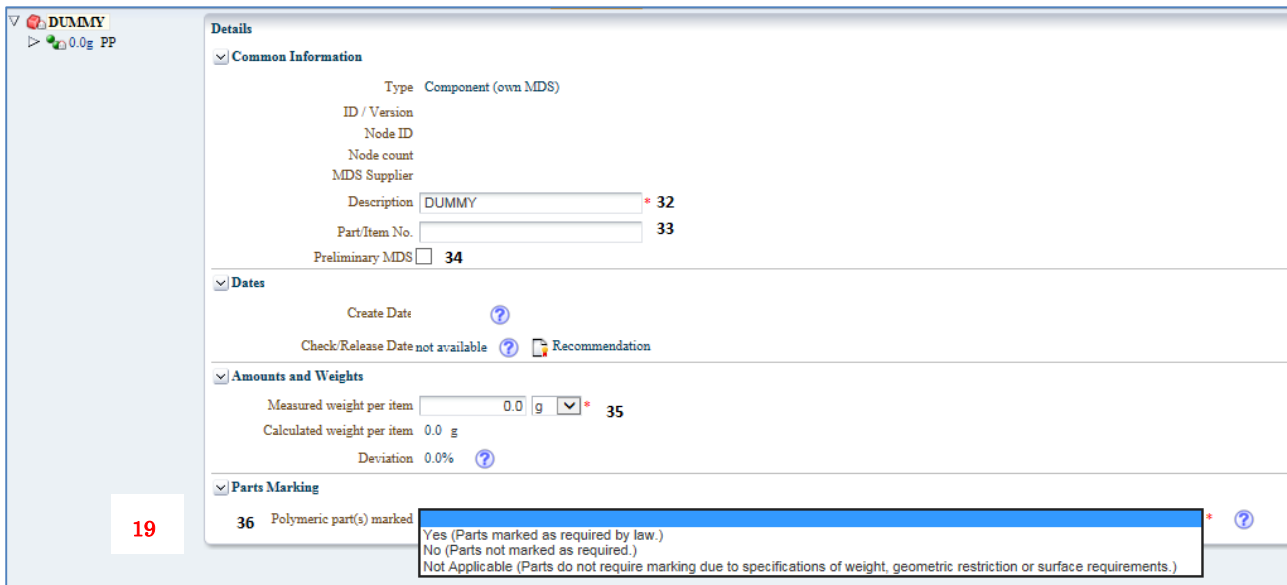
| ID | Application |
|----|---|
| 1 | Alloying element in steel for machining purposes or galvanised steel |
| 15 | Valve seats |
| 20 | Other application (potentially prohibited) |
| 51 | Alloying element in bearing shells and bushes in engines, transmissions and air conditioning compressors. |
| 52 | Alloying element in bearing shells and bushes for all other applications (potentially prohibited). |

| No. | Data Item | Input Requirements | How to Input Data | Input Examples |
|-----|---|----------------------|---|----------------|
| | | (Mandatory/Optional) | | |
| 14 | Weight | Mandatory | Input actual measured weight and select appropriate weight unit. If measured weight is not available, design weight specified in the drawing may be used. | 150[g] etc |
| 15 | Does the Material contain recyclate ? | Mandatory | If the material contains, (1) in-house recycle material or (2) post consumer recycle material, You need to select "yes". | Yes/No |
| 16 | Content of post-industrial/pre-consumer recyclate | Mandatory | Minimal and maximal percentages of pre-consuming recycled matter (max deviation : 20%. If more, leads to warning when check) | 0-20 etc |
| 17 | Content of post consumer recyclate | Mandatory | Minimal and maximal percentages of post-consuming recycled matter (max deviation : 20%. If more, leads to warning when check) | 0-20 etc |

| | | | | |
|--|-------------|--|--|---|
| Definition of recycle material should be referred to ISO 14021. Post-industrial/Pre-consumer recycle material should be referred the following table. | | | | |
| Post-industrial/Pre-consumer recycle material (Definition in ISO 14021) | | Example as excluded from Post-industrial/Pre-consumer recycle material | | |
| Post-industrial/Pre-consumer recycled material ; Material diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it. | | Plastic:Gate, Sprue, Runner Metal :Self outbreak scrap | | |
| 18 | Application | Mandatory | Applicable application code should be selected from the list proposed by IMDS in case of containing 4 heavy metals (lead, hexavalent chromium, mercury, cadmium) or compounds of the 4 heavy metals. It indicates the use case (= exemption) of the substance present in the material But Other application (potentially prohibited) is prohibited to input in Nissan and Renault. Refer to each country exemption rule of RNES-B00027 Prohibited or restricted substances in parts | selected from the list proposed by IMDS |

Input items concerning a component when material data was added to a component

The box “Polymer marking” appears when at least one polymeric material (classification 5.x) is attached to the component. A drop-down menu allows to select the appropriate field. A field not documented and the choice of “No (parts not marked as required”) are not acceptable by Renault and Nissan.



| No. | Data Item | Input Requirements | How to Input Data | Input Examples |
|-----|--------------------------|----------------------|---|--|
| | | (Mandatory/Optional) | | |
| 19 | Polymeric part(s) marked | Mandatory | Polymeric part marking should be answered for all plastic parts with more than 100g & Elastomers more than 200g Select an answer for the Polymeric part marking from “Yes”, “No” or “Not applicable”. Please confirm RNES-A00001 Material Marking Specifications if you choose “Not applicable” | “Yes”, “No” or “Not applicable”. |

9.4 Weight

If the difference between the weight declared by the supplier in IMDS (measured weight) and the part's weight known by Renault and Nissan is too high, the MDS will be rejected. The maximal difference tolerated is 5%, but the MDS can be rejected for a lesser difference.

| Weight of component (X) | Max. deviation in % |
|-------------------------|---------------------|
| $X < 1g$ | 100 |
| $1g \leq X < 100g$ | 10 |
| $100g \leq X < 1kg$ | 5 |
| $1kg \leq X < 10kg$ | 2 |
| $10kg \leq X < 100kg$ | 1 |
| $X \geq 100kg$ | 0.5 |

With IMDS Release 10.0 range-based default values apply for maximum deviations. Tolerance values will no longer be displayed in the web application, including legacy data.

The deviation values are checked at every component node level and should not exceed the upper limits defined as percentages. The weight ranges and respective limits are shown in the table above (e.g. a component of weight 100g must not have a deviation compared to the calculated weight of more than 5%).

Warnings will appear if a deviation exceeds the defined maximum. This warning also applies to legacy data.

9.5 “Preliminary MDS” option

When a MDS is created, it is possible to tick the box “Preliminary MDS” in the “Ingredients” tab. This allows to create a MDS without giving all the substances data. But Renault and Nissan wishes to receive only MDSs that contain 100% of the substances data. Therefore do not tick the “Preliminary MDS” box otherwise the MDS cannot be transmitted to Renault and Nissan. Moreover, every MDS to which a MDS is attached with the box “Preliminary MDS” ticked is not acceptable for Renault and Nissan.

9.6 “Forwarding allowed” option

The “Forwarding allowed” box in the “Recipient data” tab (see section 12) has to be kept ticked. Every MDS to which a MDS is attached with the box “Forwarding allowed” unticked is not acceptable by Renault and Nissan.

10 Specific cases for parts supplied to Renault

10.1 Parts existing in several colours (Renault Specific)

In order to avoid multiple declarations when a part exists in **different colours**, Renault asks for **one single declaration**: the MDS of the neutral part (if applicable) together with the different colours. The declared **weight for each colour** must be **divided by the number of colours**.

Example: a part exists in three colours. The coloured material has a weight of 1000 g with 90 g of colour. Component 3 is made of the PP-GF-30 material and can be coloured either in blue, red or green. Only one MDS has to be declared with all the colours. Each colour has to be declared with a weight of $90/3 = 30$ g:

Right MDS

Wrong MDS

Details - Blue tint

| | |
|-------------------|--------------------|
| Type | Material (own MDS) |
| ID / Version | 544407436 / 0.01 |
| Node ID | 544407436 |
| MDS Supplier | RENAULT |
| Name | Blue tint |
| Trade name | - |
| Internal Mat.-No. | - |
| Preliminary MDS | No |

Details - Green tint

| | |
|-------------------|--------------------|
| Type | Material (own MDS) |
| ID / Version | 544407519 / 0.01 |
| Node ID | 544407519 |
| MDS Supplier | RENAULT |
| Name | Green tint |
| Trade name | - |
| Internal Mat.-No. | - |
| Preliminary MDS | No |

Details - Red tint

| | |
|-------------------|--------------------|
| Type | Material (own MDS) |
| ID / Version | 544407496 / 0.01 |
| Node ID | 544407496 |
| MDS Supplier | RENAULT |
| Name | Red tint |
| Trade name | - |
| Internal Mat.-No. | - |
| Preliminary MDS | No |

This type of documentation is asked for:

- coloured materials
- parts that can be coloured or not coloured insofar as the weight difference between the coloured and the uncoloured parts is below 5%.

Details - blue colour

| | |
|---------------------------|--------------------|
| Type | Material (own MDS) |
| ID / Version | 9021 / 9021 |
| Node ID | 9021 |
| MDS Supplier | Ren Supplier |
| Name | blue colour |
| Trade name | - |
| Internal Mat.-No. | - |
| Development Sample Report | No |

Details - red colour

| | |
|---------------------------|--------------------|
| Type | Material (own MDS) |
| ID / Version | 9021 / 9021 |
| Node ID | 9021 |
| MDS Supplier | Ren Supplier |
| Name | red colour |
| Trade name | - |
| Internal Mat.-No. | - |
| Development Sample Report | No |

Details - green colour

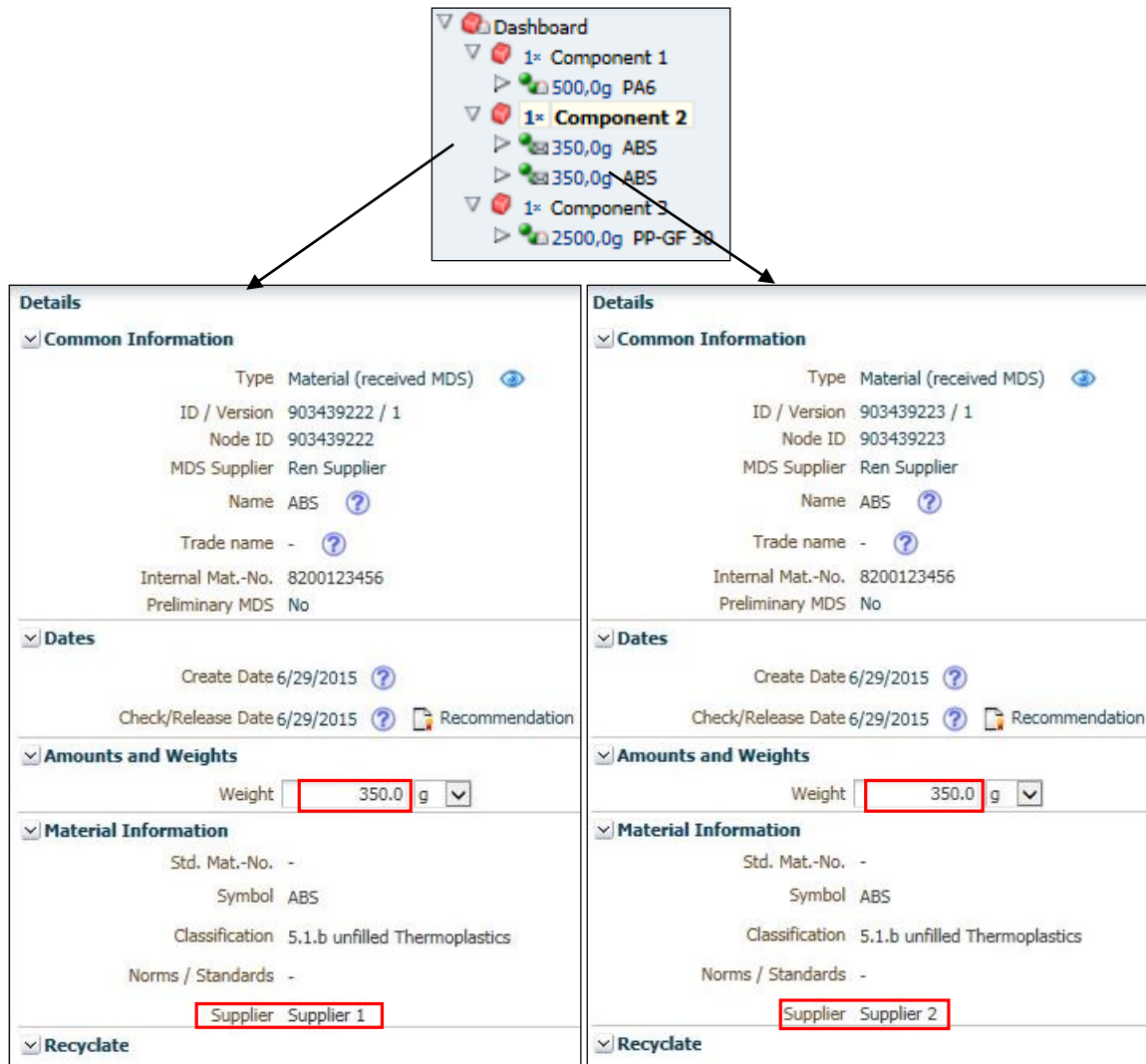
| | |
|---------------------------|--------------------|
| Type | Material (own MDS) |
| ID / Version | 9021452 / 9021452 |
| Node ID | 9021452 |
| MDS Supplier | Ren Supplier |
| Name | green colour |
| Trade name | - |
| Internal Mat.-No. | - |
| Development Sample Report | No |

Note : In case of Parts supplied for NISSAN, each coloured parts have individual parts number

10.2 Parts with a material diversity (Renault Specific)

In order to avoid multiple declarations for a part with a material diversity, Renault asks for one single declaration: the

declared weight for each material provided by a given supplier has to be divided by the number of suppliers. In the example presented in the figures below, component 2 has a weight of 700 g. The material of this component can be provided by two different suppliers, thus two different materials are declared: the first transmitted by the supplier 1 and the second by the supplier 2. The weight of 700 g divided by the number of supplier is associated to each material, namely $700/2 = 350$ g.



10.3 Left / right parts (Renault Specific)

In the case of left/right parts (for example outside rear-view mirrors), Renault wishes to have one MDS per part number: a MDS for the left part and a MDS for the right part. It is possible to use the function “Copy/New Datasheet” in IMDS to create a MDS from the other one. Document properly for each MDS the requested part number, index, description and name.

11 Documentation of the "supplier data" tab

The information on the MDS supplier has to be entered in the “Supplier Data” tab. Select the person to contact for any question on the MDS; this person can be different from the editor of the MDS:

| Material Search | Ingredients * | Supplier Data * | Recipient data * | Analysis | MDS Request |
|---|---|-------------------|---|----------|-------------|
| Name Component_465035623 ID version 465035623 / 0.01 Node ID 465035623 Status Edit mode | | | | | |
| Company | | | | | |
| Company | RENAULT | Organisation unit | RENAULT | | |
| Company ID | 10753 | Company ID | 10753 | | |
| DUNS Number | - | DUNS Number | - | | |
| Company Address | 1 avenue du Golf 78288 GUYANCOURT FR (France) | Company Address | 1 avenue du Golf 78288 GUYANCOURT FR (France) | | |
| Contact Person | | | | | |
| Contact Person | <input type="text"/> | | | | |
| E-Mail | - | | | | |
| Telephone No. | - | | | | |
| Fax No. | - | | | | |

12 Documentation rules for the "recipient data" tab

12.1 Case of transmission to Nissan (Nissan Specific)

To transmit the parts data sheet

| Details | |
|---|--|
| Transfer Information Company Organisation unit Recip. Status <small>edit mode</small> Supplier Code <input type="text"/> 38 ? Name <input type="text"/> 39 Part/Item No. <input type="text"/> 40 ? Transmission/Check Date <small>not available</small> Forwarding allowed <input checked="" type="checkbox"/> 41 | |
| Drawing Drawing No. <input type="text"/> 42 Drawing dated <input type="text"/> 43 ? Drawing Change Level <input type="text"/> 44 ? | |
| Purchase Order Purchase Order No. <input type="text"/> 45 Bill of Delivery No. <input type="text"/> 46 | |
| Report | |

To transmit the material data sheet

| Details | |
|---|--|
| Transfer Information Company Organisation unit Recip. Status <small>edit mode</small> Supplier Code <input type="text"/> 38 ? Name <input type="text"/> 39 Item- /Mat.-No. <input type="text"/> 40 ? Transmission/Check Date <small>not available</small> Forwarding allowed <input checked="" type="checkbox"/> 41 | |
| Drawing Drawing No. <input type="text"/> 42 Drawing dated <input type="text"/> 43 ? Drawing Change Level <input type="text"/> 44 ? | |
| Purchase Order Purchase Order No. <input type="text"/> 45 Bill of Delivery No. <input type="text"/> 46 | |
| Report | |

| No. | Data Item | Input Requirements | How to Input Data | Input Examples |
|-----|--------------------------------|---|--|--|
| | | (Mandatory/Optional) | | |
| 38 | Supplier Code | Mandatory | Input the Supplier Code specified in the Parts List provided by Nissan. ('N' is not mandatory) | N000,NL000, etc |
| 39 | Name | Mandatory | Input the parts name specified in the Parts List provided by Nissan. Input the symbol, or code, etc. to define Material. | BUMPER PP etc |
| 40 | Part/Item No Item-/Mat.-No. | Mandatory | Input the 10 digit part number as shown in the Nissan drawings using western alphanumeric characters only. Do not include any hyphens or spaces, etc. between the first 5 and last 5 digits. | 1234567890 etc |
| 41 | Forwarding allowed | Mandatory Check required | - | - |
| 42 | Drawing No. | Optional | Input the Drawing No. The Drawing No. has 10 digits. Do not put a hyphen or space between the first 5 and second 5 digits | 1234567890 etc |
| 43 | Drawing dated | Optional | Input the date of the most recent design notification issue date for the particular part, or the Drawing Issue Date. | 20080301 etc (if it is March 1, 2008) |
| 44 | Drawing Change Level | Data sheet of parts : Mandatory Data sheet of Material : Optional | Input the most recent Drawing Notification No. | O1-X001, O1X00etc |
| 45 | Purchase Order No. | Optional | Input production parts number and material code (item codes provided from purchase dept. of Nissan.) | - |
| 46 | Bill of Delivery No. | Not necessary | - | - |

12.2 Case of transmission to Renault (Renault Specific)

To transmit the parts data sheet (for semi-components or materials the field "Part/Item No." is replaced by "Item-/Mat.-No." or "Internal Mat.-No." respectively).

Details

▼ **Transfer Information**

Company RENAULT [10753]
 Organisation unit -
 Recip. Status edit mode
 Supplier Code 1 ?
 Name 2
 Part/Item No. - ?
 Transmission/Check Date not available
 Forwarding allowed 3

> **Drawing**

> **Purchase Order**

> **Report**

▼ **Company specific**

Index Renault part 4 ?
Check with your Renault designer that this part index is in use.

e-mail of the designer 5 ?

Index of the standard --J ? | Download 6

Comment 7 ?

| No. | Data Item | Input Requirements | How to Input Data | Input Examples (Renault) |
|-----|--|-----------------------|---|----------------------------|
| | | (Mandatory /Optional) | | |
| 1 | Supplier Code | Mandatory | Account number (provided by Renault) 6 digits number | 123456 |
| 2 | Part/Item No. Item-/Mat.-No. Internal Mat.-No. | Mandatory | Corresponds to the Renault's reference of the part 10 characters | 8200123456 ; APV7701450 |
| 3 | Forwarding allowed | Mandatory | Agreement for the forwarding of the MDS Tick | Ticked |
| 4 | Index Renault part | Mandatory | Renault part index 3 characters: '-' and alphanumeric characters ('A'-'Z') | --D |
| 5 | E-mail address of the designer | Mandatory | E-mail address of Renault designer in charge of the MDS of the part | XXX-XX@renault.com |
| 6 | Index of the standard | Mandatory | Index of Renault 00-10-050 standard contracted in the RFQ 3 characters | --G |
| 7 | Comment | Optional | Comment | Comments about the part. |

12.3 Accounts (Renault and Nissan IMDS Company IDs)

For IMDS submissions select the recipient Company ID from the list below.

The supplier shall select the destination Company ID in accordance with the Nissan / Renault design release base.

| IMDS recipient destination (name) for transmission | IMDS company ID (account) | Nissan / Renault design base |
|--|---------------------------|--|
| Nissan Technical Center(Japan) | 13822 | NML, Nissan Shatai, Aichi Machine Industry Co., Ltd., NBA, YNTC, NTCSEA, NSA, RNTBCI |

| | | |
|---------------------------------------|--------|---|
| Nissan Technical Centre Europe * | 13821 | NTCE, NTCEs After Sales Parts(Europe) |
| Nissan Technical Center North America | 53918 | NTCNA, NMEX |
| Nissan After-Sales(Japan) ** | 115169 | After Sales Parts(Japan) |
| Renault | 10753 | Renault group: Renault, Dacia, Renault Samsung Motor (RSM) and AVTOVAZ, all regions |

* Nissan After sales (Europe) parts shall be transmitted to ID: 13821.

**Nissan After-Sales (Japan) parts shall be transmitted to ID: 115169.

12.4 Use of a MDS request (Renault Specific)

When a MDS request is made by the Renault designer, an informing e-mail is sent to at least one of the company contacts documented in IMDS:

From: imds@renault.com

Subject: Please submit IMDS data to Renault, ID 10753 [Part no:<> - Name:<>]

1

Dear Supplier,

Please provide a MDS as requested below until the mentioned date.

| | |
|--------------------------------------|----------------|
| Target Org.-Unit: | RENAULT[10753] |
| MDS Type: | <> |
| Customer Part No: | <> |
| Customer Description: | <> |
| Due date: | <> |
| Index Renault part (Revision Level): | <> |
| Project name: | <> |
| Designer Email: | <> |
| Index NGO Norm: | <> |

Thank you to respect the Renault part number size (10 characters, no space).

If you have any questions, please contact the designer at Renault.

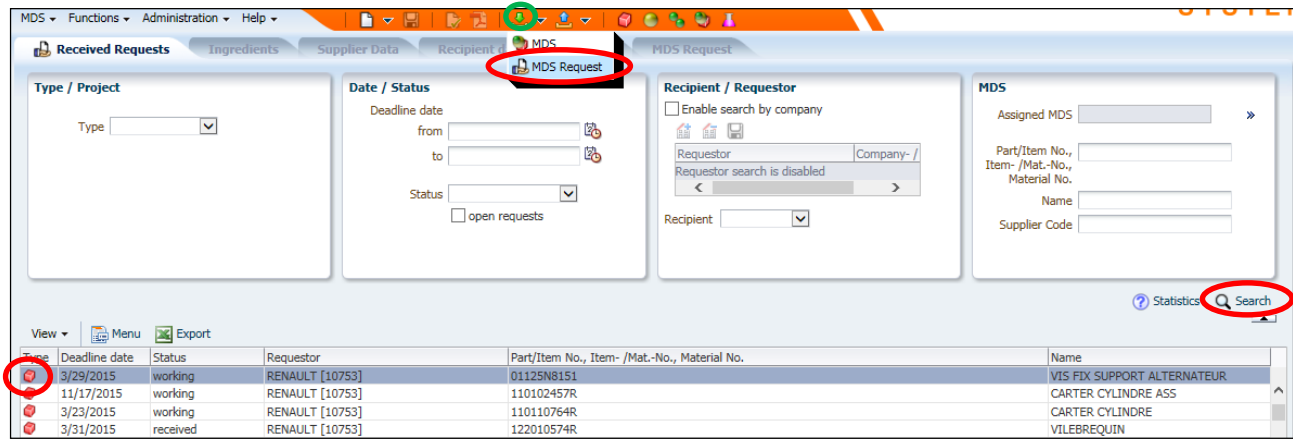
Best regards,

Your Renault contact

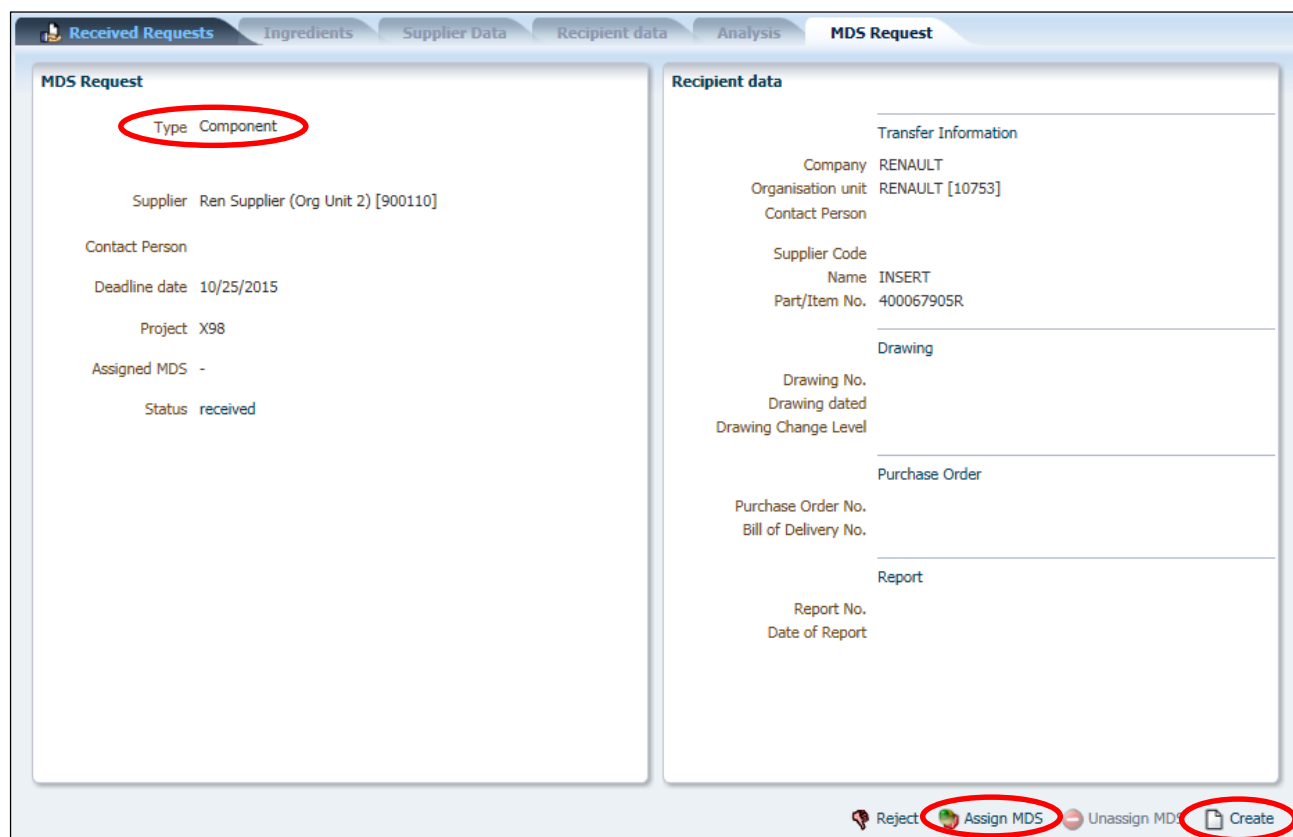
¹ Or Index Renault part.

² The project name documented by the designer outside of IMDS is given here for information.

The request is received in IMDS (menu "Functions", "InBox", "MDS request"):



Double-click on the line that corresponds to the request to open it:



It is possible to associate to this request an already existing internal MDS of the requested type² by selecting “Reassign MDS” or to create a MDS of the requested type by selecting “Create”. In both cases, the “Recipient data” tab is pre-filled with the data of the request: recipient company “Renault [10753]”, <Name> and <Part/Item No.>:

The screenshot shows the 'Recipient data' tab in the IMDS software. The top navigation bar includes 'Received Requests', 'Ingredients', 'Supplier Data', 'Recipient data', 'Analysis', and 'MDS Request'. The main window displays the following details:

- Transfer Information:**
 - Company: RENAULT [10753]
 - Organisation unit: -
 - Recip. Status: edit mode
 - Supplier Code: [Empty field]
 - Name: INSERT
 - Part/Item No.: 400067905R
 - Transmission/Check Date: not available
 - Forwarding allowed:
- Drawing:**
 - Drawing No.: [Empty field]
 - Drawing dated: [Empty field]
 - Drawing Change Level: [Empty field]
- Purchase Order:**
 - Purchase Order No.: [Empty field]
 - Bill of Delivery No.: [Empty field]
- Report:**
 - Report No.: [Empty field]
 - Date of Report: [Empty field]
- Company specific:**
 - Index Renault part: [Empty field]
 - e-mail of the designer: [Empty field]

It is recommended to use the MDSs requests sent by Renault to build the MDS in answer in order to limit the errors. It is also advised to copy the field <Name> documented here in the “Recipient data” tab in the appropriate field of the MDS “Ingredients” tab that is <Description> for a MDS of “Component” type, <Article name> for a MDS of “Semicomponent” type, <Name> for a MDS of “Material” type in accordance with section 3.

The company specific data are however not pre-filled. Refer to the e-mail send in parallel to the MDS request to document the fields:

- <Index Renault part>
- <e-mail of the designer>
- <Index of the standard>.

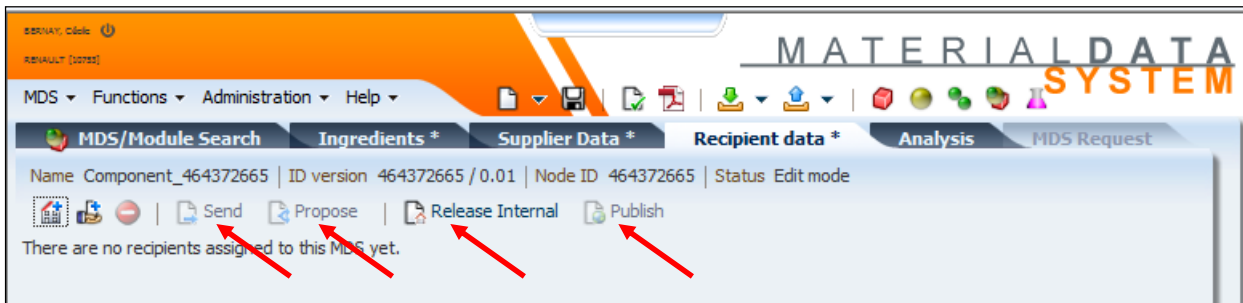
12.5 Transmission of the MDS (Renault Specific)

IMDS gives four possibilities for the transmission of the MDS:

- Send: transmit the MDS to one recipient

² Some restrictions exist, see IMDS user manual (section 1.3).

- Propose: transmit the MDS to one or several recipients with internal release
 - Release internal: publish the MDS within the company, for example to create a MDS that has to be reused at a later stage inside the company
- Publish: make the MDS available for all the IMDS users (MDS not acceptable for Renault).



It is asked to transmit to Renault MDSs with a whole version number. For that, either first release the MDS internally then propose it or directly propose the MDS

12.6 Check (Renault Specific)

A check is done when the MDS is transmitted; a list of errors and warnings can appear:

| Check results - 7 Error(s) / 0 Warning(s) | | | | |
|---|-------|----------------|---------------------|---|
| No. | Type | Tab | Node / Recipient | Message |
| 1 | Error | Ingredients | Component_903739208 | Replace the default name of this datasheet/module by a meaningful name. |
| 2 | Error | Ingredients | Component_903739208 | Non basic substances must be decomposed further |
| 3 | Error | Ingredients | Component_903739208 | The measured weight per item needs to be greater than zero. |
| 4 | Error | Supplier Data | - | Contact must be specified |
| 5 | Error | Recipient data | RENAULT | Please enter a correct index of the Renault part. |
| 6 | Error | Recipient data | RENAULT | E-mail address of the RENAULT DESIGNER in charge of the part has to be entered. |
| 7 | Error | Recipient data | RENAULT | Please enter a correct index of the standard. |

Each error line has to be corrected in order to be able to transmit the MDS.

If Renault is already documented as the recipient company of the datasheet, the checks will be done with the Renault specific rules.

12.7 Validation of the MDS by Renault (Renault Specific)

When a MDS is accepted, the user is informed in his personal IMDS profile: he or she has such to login into IMDS. When a MDS is rejected, the IMDS user is informed by e-mail and in his personal IMDS account. The rejection reasons are explained in the e-mail and in the MDS field "Rejection reason". All the questions on the rejection reasons can be addressed to imds@renault.com.

The possible Renault rejection reasons are summarised in the table below and explained in the paragraphs 12.7.1 and

12.7.2.

| N° | Rejection reason | Comments |
|----|---|--|
| 1 | Unknown part number (automatic rejection) | Check with the Renault designer |
| 2 | Unknown part's index (automatic rejection) | Check with the Renault designer |
| 3 | "Forwarding allowed" box unticked (automatic rejection) | See section 4.3 and 5.1. |
| 4 | Percentages of recycled matter absent (automatic rejection) | See section 3.5. |
| 5 | Marking absent or field "No (parts not marked as requested)" selected (automatic rejection) | See section 3.5. Tolerance for complex MDSs |
| 6 | Black substance present with a higher portion than the prohibited threshold | See Renault substances standard 00-10-050 at the index contractualised at the RFQ |
| 7 | Anticipative substance present with a higher portion than the declaration threshold | See anticipative list and Renault substances standard 00-10-050 at the Index contractualised at the RFQ (the anticipative list is additionally requested for the standard Index up to --J) |
| 8 | REACH annex XIV substance present with a higher portion than the declaration threshold | See REACH regulation and the Renault substances standard 00-10-050 at the Index contractualised at the RFQ |
| 9 | REACH annex XVII which use is prohibited | See REACH regulation |
| 10 | Confidential and/or joker substances portion > 10% (automatic rejection) | See IMDS recommendation 001 |
| 11 | Invalid application code (automatic rejection) | See annexe II of the 2000/53/CE ELV directive |
| 12 | Measured weight inconsistent with the other data known by Renault | Check with the Renault designer |
| 13 | Non whole version number (automatic rejection) | See section 5.3. |
| 14 | MDS types not identical at a same level (automatic rejection) | See IMDS recommendation 001 |
| 15 | The maximum acceptable weight deviation, on a component level, is exceeded | See section 10.4 |

Put in place or serviced in 2016

12.7.1 Renault specific and material data (Renault Specific)

Make sure to check the designation, name, part number, exact index of the part, supplier code and **designer e-mail** before transmitting the MDS: in case of error the MDS will be rejected. A MDS with a non-whole version number will be rejected: propose the MDS in order to automatically release it internally. If the forwarding of the MDS is not allowed, the datasheet will be rejected. The standards associated to the material have to be documented. Recyclate, symbol and part's marking also have to be documented for the concerned classifications. If the material is declared as containing recyclate but the percentages of recyclate are not documented, the MDS will be rejected. Finally, the measured weight has to be consistent with the other data of the part known by Renault.

13 Actual examples of frequently asked questions

| Category | Question | Answer |
|---------------------------------------|--|--|
| Registration with IMDS | Our company is already registered on IMDS in relation to another company. Does our company have to register again in relation to business with Renault & Nissan? | There is no need to register again. |
| | Our company would like to register with IMDS, but how do we go about it? | Registration can be completed online at the IMDS website. |
| | How much fees are charged for using IMDS? | There are no charges for suppliers. The OEM side (Renault & Nissan) pays Hewlett-Packard charges based on the total number of MDSs. |
| Contact Person, Company Administrator | We are not sure about what kind of person is appropriate as a Contact Person or Company Administrator | The Contact Person is a person who is familiar with materials. A Company Administrator is a person who manages the User IDs in your company and who is the contact person with Hewlett-Packard. |
| Password | Although I inputted the password, a lock was applied and I was unable to log in. What do I do? | Releases it by Request new password menu. This is under the login menu. |
| Language | Can I input data in Japanese? | No, it is not possible. This is a system that was developed in Europe and all data must be added using Western English characters. |
| Data Transmission | I have registered with IMDS but when I actually go to use the system, it takes a long time to switch from one page to the next. Is there anything I can do? | It depends on the internal internet connection environment but it could also be because the IMDS server is located in Europe. |
| | If we send our company's data to Renault & Nissan, is there a possibility that it will be seen by other suppliers? | No. Basically, only companies whose address you specify will be able to view your company's information. However, if when you transmit your information you press the "Publish" button, your company's information can be viewed by all IMDS users. |
| | When you try to transmit data sheet to Renault & Nissan after "Internal" data transmission, you can't see the "Send" button. ("Propose" and "Published" are only indicated into the IMDS.) | When you transmit the data outside your company after sending it within your company, only the "Send" and "Publishing" buttons are indicated. You should choose "Send" button. If you choose "Publishing" button, everyone can freely look at the data sheet. |
| Parts supplied by Renault & Nissan | There are parts supplied by Renault & Nissan in the components, so for the IMDS input, what should I do? (Please refer the section 8) | Communicate to Renault & Nissan the Renault & Nissan part number (Level 1), along with the part number of the part supplied by Renault & Nissan and the original supplier of the supplied part that is included in the component. Renault & Nissan will request the original supplier of the supplied part to provide the IMDS data and transfer the Renault & Nissan supplied part and Assembly supplier need to include the Nissan supplied parts and submit the Level 1 part to Renault & Nissan. |

14 Error messages explanations

14.1 For Renault

The table below give the list of error messages the supplier can receive and give advice to correct errors.

| Item | Error message | How to correct it ? |
|---|--|--|
| Part number | Part number is not valid | The part number doesn't exist in our data base, please correct it. |
| Project | The Signe part has no link to a project | Contact the Renault Designer to be sure that the project has been assigned in MATSUB (Renault internal system for MDS management) before sending again your MDS. |
| Index | Revision level is not valid | Correct the index of the part number. |
| Weight | Weight of the MDS does not match the SIGNE weight (less the tolerance). | The MDS weight doesn't match with the weight defined in our official docs, please correct it. |
| MDS weight deviation | The deviation between the measured component weight and the calculated weight exceeds the allowed maximum deviation | Please respect the maximum deviation rules as defined at point 10.4 |
| Polymer marking | Question for polymeric mark is not answered yet | Answer to the question on polymer marking for the concerned material. |
| | Question for polymeric mark is answered by 'No' | Change your answer to the question on polymer marking (not applicable or yes). |
| Recyclate data | Recyclate information not defined | Fulfill the information about recyclate date for the concerned material. |
| Presence of substances forbidden or followed by Renault | Presence of a substance forbidden by REACH Annex XIV. Please replace it. | Follow advice given in the error message |
| | Regulatory basis: info on concerned restriction (Presence of a substance from REACH Annex XVII and potentially forbidden. Please replace it.) | |
| | Presence of a substance forbidden by RNES-B00027 standard (Renault & Nissan). Please replace it. | |
| | Presence of organotin compound. Please be sure that there is no more than 0.1% of tin in the article or in a sub-part of your article. | |
| | Presence of a substance forbidden by 00-10-050 standard. Please replace it. | |
| | Presence of a substance from Renault anticipative list. Please replace it. | |
| | Presence of DecaBDE (CAS 1163-19-5): possible restriction (Annex XVII of REACH) in 2016 and forbidding in 2018. Please provide a substitution plan to confirm with the engineering for changing before the deadline in 2018. | |
| Heavy Metals Application | Application code not allowed : 'application name' | The application is not valid for this material, check the application code. If non-compliance, contact the material supplier to correct it. |
| Joker/Confidential substances | Total amount of confidential substances and wild cards exceed maximum – Rule 4.5.2.C/4.5.3.E/5.1.A | Modify the material declaration or contact the material supplier to change the material declaration. |
| Forwarding allowed | Forwarding allowed mandatory | Tick the box « Forwarding allowed ». |
| Non whole version number | MDS sent in handshake mode cannot be accepted. Please submit using 'Propose' | Click on "Propose" instead of "Send" to submit your MDS to Renault. |
| Structure of the MDS | Node has a mixture of structure types – Rule 4.1.A, 4.2.1.A, 4.3.1.A, 4.4.1.A | 4.1.A Don't mix structure type for the same node (material, component and semi-component). |

| | | |
|-----------------|--|---|
| | | <p>4.2.1.A A component node must have at least one sub-component, one semi-component or one material child node.</p> <p>4.3.1.A A semi-component parent node must have at least one material or one semi-component child node.</p> <p>4.4.1.A A material parent node must have at least one substance or two material child nodes attached to it.</p> |
| Material Symbol | Material classification is 5.1, 5.1.X, 5.2 or 5.3. Please input "Symbol" | Please document the "Symbol" |

14.2 For Nissan

The table below give the list of error messages the supplier can receive and give advice to correct errors.

| Messages | | Action |
|-----------------------|---|---|
| Preliminary MDS | Preliminary MDS is checked. Nissan does not use this check box. Please uncheck it. | Please uncheck it. |
| Wild Card | Error: Company/Organization Name: {2}: "Request/Hg/Cr6/Cd/Pb" cannot be used. Please input substance name. | The chemical: Request/Hg/Cr6/Cd/Pb cannot be used. Please give change to other materials. |
| | Warning: Company/Organization Name: {1}: "Polymeric part(s) marked" has been selected "No" or "Not Applicable" even though the total amount of Material classification 5.1, 5.1.X, 5.4, 5.4.X, 5.5, and 5.5.X exceeds 100g. | Please confirm NESRNES-A-00001. |
| Parts Marked | Error: Company/Organization Name: {1}: Total amount of Material classification 5.1, 5.1.X, 5.4, 5.4.X, 5.5, and 5.5.X exceeds 100g. Please input "Polymeric part(s) marked". | Please input "Polymeric part(s) marked". |
| | Warning: Company/Organization Name: {1}: "Polymeric part(s) marked" has been selected "No" or "Not Applicable" even though the total amount of Material classification 5.2 and 5.3 exceeds 200g. | Please confirm NESRNES-A-00001. |
| | Error: Company/Organization Name: {1}: Total amount of Material classification 5.2 and 5.3 exceeds 200g. Please input "Polymeric part(s) marked". | Please input "Polymeric part(s) marked". |
| | Prohibited substance restricted by Nissan is contained. Please confirm Nissan requirement RNESB00027 or NES M0301. Even if this warning is indicated, no problem when substance contents is less than threshold. | Please confirm RNESB00027 and the relating regulations. |
| Prohibited Substances | Error: Company/Organization Name: {2}: Material classification is 5.1, 5.1.X, 5.2 or 5.3. Please input "Symbol". | Please input "Symbol" |
| Material Symbol | Error: Company/Organization Name: {2}: Material classification is 5.1, 5.1.X, 5.2 or 5.3. Please input "Symbol". | Please input "Symbol" |

15 Revision Record

| | |
|--------------|--|
| Title | IMDS DOCUMENTATION RULES FOR SUPPLIERS |
|--------------|--|

| | Reasons | Date | Person in charge |
|-------------|---|-------------|-------------------------|
| Version 2.0 | <p>-P16 7.4 IMDS recommendations: Add sentence for Do not recommend "REC019" due to IMDS data quality issues</p> <p>-P19 8.2.1 Material directly sent to Renault and Nissan: Added requirement for IMDS data input for direct materials.</p> <p>-P29 9.3 Documentation rules for component/semi-component: Added the input procedure for Recyclate Information based on IMDS system enhancement.</p> <p>-P33 application code: Added the additional sentences of " The LATEST application code shall be submitted."</p> <p>-P37 9.4 weight: Allowed max deviation are set per weight based on IMDS system enhancement.</p> <p>-P44 12.3 Accounts (Renault and Nissan IMDS Company IDs) Added AVTOVAZ under Renault group</p> <p>-P51 14.1 Error message explanations For Renault: Updated the latest error messages to suppliers.</p> <p>-P52 14.2 Error message explanations For Nissan: Updated the latest error messages to suppliers.</p> | Feb.25,2020 | Naoki Mori |