

## **Bosch IMDS Guideline**

Version 7 (01.01.2025)

**This IMDS guideline (guideline for data entry into the International Material Data System) is multifaceted and includes several key aspects:**

### **Standardization:**

This IMDS guideline provides a uniform framework for the collection, documentation, and exchange of material data within Robert Bosch GmbH. It promotes the consistency and comparability of data between different Bosch divisions and their suppliers.

### **Legal conformity:**

This IMDS guideline helps Robert Bosch GmbH to meet legal requirements regarding material conformity, in particular with regard to the use of hazardous substances. It provides guidance on how to report material data for regulations such as EU ELV and EU REACH.

### **Data quality:**

This IMDS Guideline sets out specific requirements and best practices to ensure the quality and integrity of the material data collected. This is crucial to ensure that the information is reliable and up to date.

### **Transparency and traceability:**

By providing clear guidelines for the documentation of material data, this IMDS guideline promotes transparency in the supply chain. This allows us to understand better the source and composition of materials.

### **Promoting sustainability:**

By encouraging our supply chain to report reliable and consistent data, this guideline supports our sustainability goals.

Overall, this IMDS Guideline is an important tool for improving cooperation between Robert Bosch GmbH and its suppliers, optimizing quality of material data and ensuring compliance with regulations.

**The following relevant documents for data entry into the IMDS must be observed:**

### **IMDS Recommendations:**

Compliance with the IMDS recommendations and rules is of central importance for the correct and transparent documentation of material data in the automotive industry. These IMDS recommendations and rules ensure that all relevant information about the materials used in vehicles is collected and provided to meet legal requirements and customer expectations.

The IMDS Recommendations provide specific guidance on data entry, classification of materials and reporting of substances that may be hazardous to the environment or health. The rules, on the other hand, define the binding requirements that all participants in the IMDS must comply with to ensure the integrity and consistency of the data.

It is important that all companies operating in the IMDS strictly follow these recommendations and rules to ensure the quality of the data and avoid possible legal consequences.

### **RB (Robert Bosch) standard N2580 - Prohibition and declaration of substances:**

Compliance with material compliance requirements is critical for our business. These requirements relate to the use of materials that could contain substances that are hazardous to the environment and health. The correct documentation and reporting of material data is not only a matter of compliance, but also an essential part of our corporate responsibility.

In this context, the RB standard N2580 plays an important role. This standard sets out specific requirements and guidelines that our supply chain must follow when collecting and reporting material data. It serves as a guide to ensure compliance with applicable legal requirements and helps companies to ensure the transparency and traceability of their material data. This does not release the supplier from the responsibility to check the validity of further or legal requirements exceeding the contractual agreements and to ensure compliance with them.

Compliance with RB Standard N2580 and the associated legal requirements is crucial to minimize legal risks and strengthen trust with our partners.

Our partners should therefore ensure that their material compliance processes are regularly reviewed and updated to meet changing regulatory requirements.

The substance restrictions of the RB Standard N2580 (Prohibition and declaration of substances) must be complied with in accordance with the contractual agreements. These refer to as e.g.:

- Global Automotive Declarable Substance List (GADSL)
- EU End-of-Life Vehicle Directive (2000/53/EC (EU ELV)), including the current Annex II
- Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (EC No 1907/2006 (EU REACH))
- where necessary, rules specific to regions

#### **Notes on creating IMDS Material Data Sheets (MDSs):**

##### **Understanding the requirements:**

Familiarize yourself with our IMDS guideline. This includes the legal requirements for material conformity as well as RB specific requirements.

##### **Data: Make sure you have all the necessary information about the materials used in your product.**

These include as e.g.:

- Material composition
- Substances used and their concentrations
- Source of the materials
- Possibly safety data sheets (SDS) for hazardous substances

##### **Classification:**

Classify materials according to IMDS recommendations. Be sure to select the right material classification to avoid misunderstandings.

##### **Compliance with the limit values:**

Check that the materials used comply with the legal limit values for hazardous substances. This is particularly important in terms of regulations such as EU ELV and EU REACH.

##### **Documentation of the data:**

Capture all relevant data in the IMDS platform. Make sure the information is entered clearly and accurately to avoid misunderstandings.

##### **Regular updates:**

Keep your MDSs regularly up to date according to IMDS recommendations change management, especially if the material composition or legal requirements change. This is important to ensure compliance.

### **Communication with sub-suppliers:**

Work closely with your sub-suppliers to ensure that you receive the necessary information about the materials used. Clear communication can help to avoid misunderstandings and improve the quality of the data.

By following these instructions, you can ensure that your IMDS material data sheets meet the requirements for acceptance.

When revising a data sheet without changing the Bosch part number, please do not create a copy with a new IMDS ID, use the new version option instead of "create new datasheet".

To avoid possible rejections, it should be ensured that MDSs conform to the new status (IMDS Recommendations, RB standard N2580 and RB IMDS Guideline) before they are resent.

Rejected MDSs should be processed immediately in accordance with the rejection reasons. If you have any questions, please get in touch with the contact mentioned in the rejection reasons.

All MDSs sent to RB must be approved for forwarding.

**The timing of creating and sending IMDS MDSs is critical to ensure that all relevant information is provided in a timely manner and in accordance with the requirements of the automotive industry.**

### **MDSs for prototypes:**

Hint: It is beneficial that IMDS MDSs are created internally at our suppliers for prototypes. This helps in ensuring that all materials used in production meet the legal requirements and the specifications of customers.

Robert Bosch GmbH reserves the right to request an IMDS MDS from the suppliers in individual cases for specific prototypes (e.g. in case of new/unknown material composition/mixture) or prior to Initial Sample Inspection Report (ISIR) / Production Part Approval Process (PPAP).

In contrast to the final material data sheets, preliminary material data sheets may contain incomplete information on materials. All other information is subject to the same requirements for accuracy, completeness, and liability as for the final material data sheets. These incomplete material data sheets must be marked as "Preliminary MDS: Yes".

Preliminary MDSs cannot be used for initial sampling.

In order not to hinder the sampling process, they must be revised in a timely manner and must be sent to Robert Bosch GmbH in final form.

Necessary processing time for IMDS data check must be considered.

### **MDSs for the ISIR/PPAP:**

MDSs should ideally be submitted to Robert Bosch GmbH at least 6 weeks before ISIR/PPAP. This allows us to check the material data and ensure that it meets the requirements before the products go into our production. Make sure you meet this deadline to avoid delays in the supply chain.

Only final and accepted MDSs can be used for the initial sampling. Preliminary MDSs cannot be used.

### **Regular updates:**

MDSs should be updated regularly, especially when material composition changes or a new legal requirement that affects the existing declaration comes into force (see IMDS Change Management). Companies should implement a process to review and update their MDSs to ensure that the information is always up to date.

**General requirements:**

The following requirements must be met:

IMDS structure of Robert Bosch GmbH, which is necessary for sending IMDS MDSs:

Company/Organization	IMDS ID
Robert Bosch Company	202
Mobility Aftermarket	8069
Powertrain Solutions	186505
Automotive Electronics	8070
Automotive Steering	198782
Chassis System Control	8073
BEG	96689
Electrical Drive	55459

Send MDS to the correct organizational entity (e.g. Mobility aftermarket (8069)) to which the item is being supplied. In case the exact organizational entity is unknown or if the item is being supplied to more than one organizational entity, send MDS to Robert Bosch company (202).

The required data must be entered in the appropriate recipient data fields (see Figure 1) in the form specified below when sending or proposing the MDS.

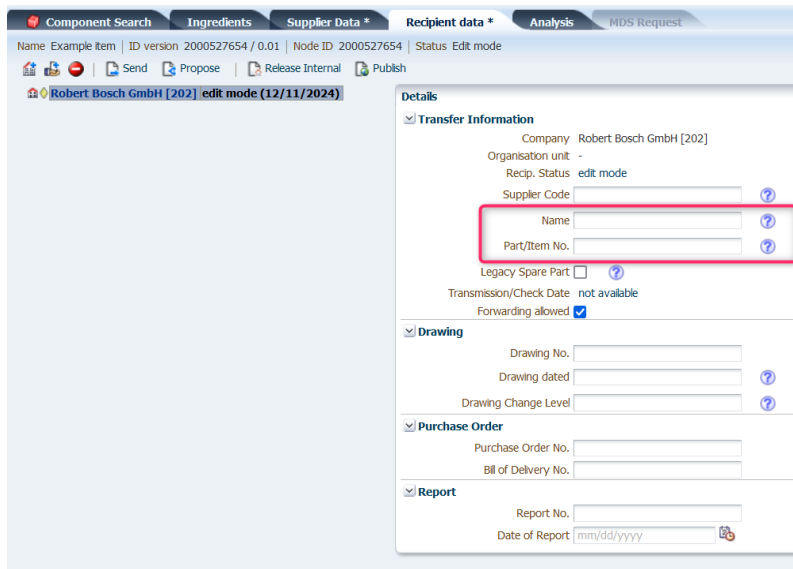


Figure 1: Hint for entering RB data when sending IMDS MDS

**Mandatory fields:**

According to information in drawing / specification / order:

- Part/Item No.: Bosch Item number:
  - 10 digits (numbers or letters);  
Optional 10 digits + space + 3 digits (numbers or letters)  
Example: 0281123A56 B12
  - Spaces, special characters, etc. within the 10-digit number are not allowed
  - If applicable, other formats. E.g. for some samples 10 digits + - + 2 digits (numbers or letters)
- Name
- Optional
  - Details of the drawing

**Additional information for data to Robert Bosch Automotive Steering GmbH:**

Format	Produce
<ul style="list-style-type: none"> <li>XXXX.XXX.XXX</li> <li>4 digital digits / dot / 3 digital digits / dot / 3 digital digits</li> </ul>	<ul style="list-style-type: none"> <li>Parts for steering gear</li> </ul>
<ul style="list-style-type: none"> <li>XXXXXX</li> <li>6 digital digits</li> </ul>	<ul style="list-style-type: none"> <li>Parts for steering columns</li> </ul>
<ul style="list-style-type: none"> <li>XXXXXXXX</li> <li>8 digital digits</li> </ul>	<ul style="list-style-type: none"> <li>Steering Column Parts from plant Maklar</li> </ul>
<ul style="list-style-type: none"> <li>xxx.xxx.xxx.xxx-xx</li> <li>3 digital digits / dot / 3 digital digits / dot / 3 digital digits / dot / 3 digital digits / dot / dash / 2 digital digits</li> </ul>	<ul style="list-style-type: none"> <li>Parts for steering columns</li> </ul>

Additional mandatory fields:

- Status/date (if no data is available → - / does not exist)
- Change number (if no data available → -)
- Supplier number or DUNS number
- Drawing number

Notes:

- The following applies to standard and catalogue parts:
  - Enter Drawing Number → Part Item/Material Number field.
  - Field Status/Date → - / does not exist.

For optional technical kits (OTK):

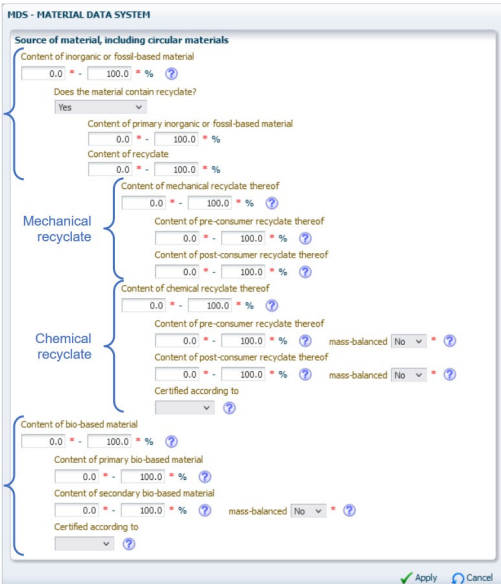
- MDSs of these part numbers are not accepted.
- Provision of the MDS of the individual parts is required.
- For further information, please contact the responsible purchasing department.

**Recyclate content and bio-based content:**

Entering correct information for recyclate content and bio-based content of materials according to IMDS Recommendation 025 is mandatory.

The following fields are provided in the wizard dialog of IMDS. Available fields for a material depend on the material classification and applicable secondary sources.

Some fields only appear if their parent field is filled. For example, the field “content of recyclate” is only shown if “yes” has been selected as the answer to “Does the material contain recyclate?”. In case the total “bio-based content” is greater than 0%, the fields for “Content of primary bio-based content” and “Content of secondary bio-based content” are shown. Therefore, the dialog will appear much smaller when opened for the first time than in the following overview.



The screenshot shows the 'MDS - MATERIAL DATA SYSTEM' dialog box. It is divided into two main sections: 'Mechanical and chemical recyclate' and 'Bio-based content'. The 'Mechanical and chemical recyclate' section includes a dropdown for 'Does the material contain recyclate?' (set to 'Yes'), followed by input fields for 'Content of primary inorganic or fossil-based material', 'Content of recyclate', and sub-sections for 'Content of mechanical recyclate thereof' (pre-consumer and post-consumer) and 'Content of chemical recyclate thereof' (pre-consumer and post-consumer). The 'Bio-based content' section includes input fields for 'Content of bio-based material', 'Content of primary bio-based material', and 'Content of secondary bio-based material'. Each input field has a range from 0.0 to 100.0 and a percentage sign. There are also 'mass-balanced' checkboxes and 'Certified according to' dropdowns. The dialog has 'Apply' and 'Cancel' buttons at the bottom.

The question 'Does the material contain recyclate' does not need to be answered with 'yes' or 'no' for materials of any classification weighing  $\leq 5g$  when referenced in a component. If the question is not answered in other cases, it may lead to the rejection of the MDS.

**For questions about:**

- Individual / project-specific data entry requirements: please contact the responsible purchasing department / requesting department directly.
- IMDS MDS Rejections: please contact the rejecting user directly.

Further information on data entry in IMDS and IMDS Recommendations can be accessed via IMDS pages ([www.mdsystem.com](http://www.mdsystem.com)) and the IMDS FAQ.

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