

SEG Automotive – IMDS Data entry specifications

Version 2.0, 2020/08/07, updates are marked in grey

This document contains data entry specifications for material data sheets you create for SEG Automotive. All received data sheets will be checked according to these specifications. All deviations will lead to a rejection of the data sheet.

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Issues listed in section 2 are based on current IMDS recommendations (e.g. related structure, tolerances, change management) but as well legal or SEG internal requirements.

Important information:

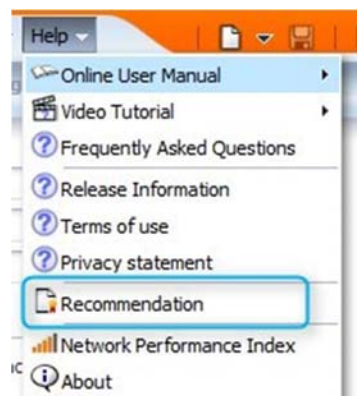
- ▶ **SEG Automotive IMDS Company ID: 175522**
- ▶ **Part/material numbers (figures or letters) must be entered always without dots, blanks or other special characters (disregard will lead to rejection)**
- ▶ **Your supplier number must be always entered**
- ▶ **Creation of IMDS data sheets must be done in compliance with IMDS recommendations (not following the recommendations will lead to immediate rejection)**
- ▶ **From ZVEI-Rec019 (Org. Unit ID 102677) published IMDS data sheets or data sheets for „Electric/Electronic (E/E) components and assemblies“ created as Flat BOM are not accepted anymore (more details see side 11).**

Restricted substances requirements of SEG Automotive standard N2580-1 ("Prohibition and declaration of substances", cf. your contractual agreements) have to be met. It refers to e.g.:

- ▶ GADSL
- ▶ End-of-Life vehicles directive (f.e.2000/53/EC (ELV)), inclusive current Annex II
- ▶ Restriction of the use of certain hazardous substances in electrical and electronic equipment, (f.e. EU-RoHS 2011/65/EU/EC), inclusive current annexes
- ▶ EU-REACH
- ▶ Region specific requirements on demand
- ▶ etc.

Information about how to create data sheets are available on the IMDS webpages (www.mdsystem.com) and within the [IMDS FAQ](#).

The IMDS recommendations can be found in the help menu after login. It is mandatory to create all data sheets according to the defined rules.



In case of questions related to

- ▶ individual / project specific submission requests: please contact related purchasing / requesting department
- ▶ rejections: please contact the rejecting person directly
- ▶ general topics about the specifications in this document: dfc@seg-automotive.com

1 General instructions on required information on the pages Ingredients and Recipient Data

1.1 Recipient data for components and semi-components

It is necessary to enter the recipient

Details

Transfer Information

Company SEG Automotive Germany GmbH [175522]
 Organisation unit -
 Recip. Status edit mode
 Supplier Code ?
 Name ?
 Part/Item No. ?
 Legacy Spare Part ?
 Transmission/Check Date not available
 Forwarding allowed

Drawing

Drawing No. ?
 Drawing dated ?
 Drawing Change Level ?

Purchase Order

Purchase Order No.
 Bill of Delivery No.

Report

Report No.
 Date of Report

Callouts:

- Enter part number as given in the BOM or sampling requirements (points to Part/Item No.)
- Enter the part/material name in English as given on the drawing or specification (points to Name)
- Enter the drawing number (points to Drawing No.)
- Enter the drawing date as given on the drawing. Leave empty for materials (points to Drawing dated)
- Enter the Index and change number divided by / e.g. 04/0396ST13140. Leave empty for materials (points to Drawing Change Level)

04	0396ST13140	20181108											
03	0001F02819	20150811											
00	initial	20140716											

Ind. Change/hend. YYYYMMDD Drawn/Gez. Checked/Gepr. Releas./Freig. BWN Resp. dept./Verantw. Abt. Add. info./Zus. Info. Size/Gst.

Treatment/Behandlung

Mat./Stoff

Lang./Spr. en/de Wght./Gew. **SEG AUTOMOTIVE** **DRIVE BEARING ANTRIEBSLAGER** Sheet/Bl. 1 / 1

Doc. type **DRW** **1 005 861 070** DP/ID Ind. Format 000 04 A2

Mat.needs/Stoffe s. Syst. N2580-1 UG Repl. for Repl. by

Mandatory

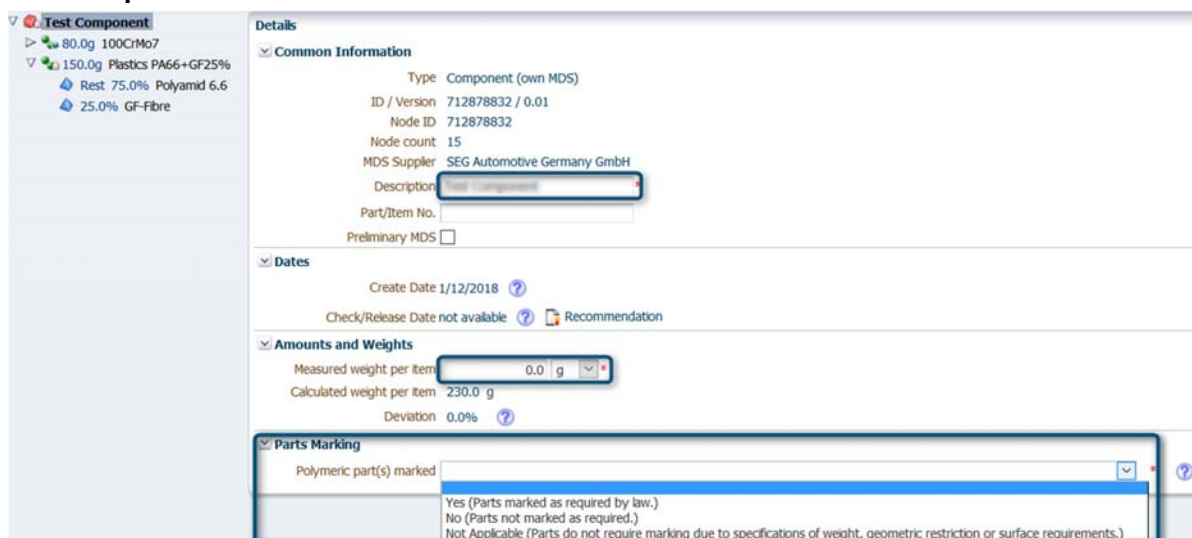
- ▶ Company: all MDS must be sent to IMDS Company ID 175522 (SEG Automotive Germany)

GmbH)

- ▶ Supplier Code: Please enter your SEG supplier number
- ▶ Name: enter the Component/Material name according to the drawing, order specification or material standard (s. chapters below for more details)
- ▶ Part/Material Number: Enter SEG part number according to drawing or order specification (**10 digits (figures or letters), always without dots, blanks or other special characters** (disregard will lead to rejection). Do not enter any other number here.
- ▶ Forwarding allowed: checkbox must be set
- ▶ Drawing No.: Enter the number according to the drawing or enter the number of the order specification if you supply a part/material where no drawing exists
- ▶ Drawing date: Enter the drawing date given on the drawing
- ▶ Drawing Change level: Enter the drawing change level given on the drawing

1.2 Ingredients

1.2.1 Components



The screenshot displays the 'Details' view for a component named 'Test Component'. The interface is divided into several sections:

- Common Information:**
 - Type: Component (own MDS)
 - ID / Version: 712878832 / 0.01
 - Node ID: 712878832
 - Node count: 15
 - MDS Supplier: SEG Automotive Germany GmbH
 - Description:
 - Part/Item No.:
 - Preliminary MDS:
- Dates:**
 - Create Date: 1/12/2018
 - Check/Release Date: not available
 - Recommendation:
- Amounts and Weights:**
 - Measured weight per item: g
 - Calculated weight per item: 230.0 g
 - Deviation: 0.0%
- Parts Marking:**
 - Polymeric part(s) marked:
 - Options:
 - Yes (Parts marked as required by law.)
 - No (Parts not marked as required.)
 - Not Applicable (Parts do not require marking due to specifications of weight, geometric restriction or surface requirements.)

Mandatory entries

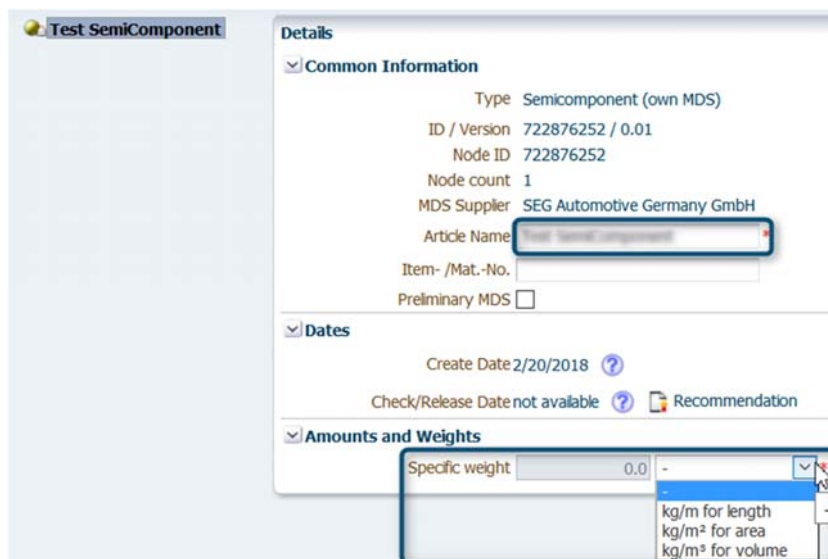
- ▶ Description (Name)
 - As stated on the drawing (not the material number)
 - English name to be mentioned first
 - If applicable: Project or catalogue name
- ▶ Measured weight per item

- ▶ Polymeric parts marking
 - Necessary with "Yes" in case part contains
 - a material according to classifications 5.1, 5.1.a, 5.1.b, 5.4.x and 5.5.x > 100 g
 - an elastomeric material according to classifications 5.2 and 5.3 > 200 g
 - or the part is marked in reality, independent on the weight
 - Necessary with "Not applicable" when parts do not require marking as required by law
 - The answer "No" is not allowed

Not accepted

- ▶ "Preliminary MDS" flag (only allowed when requested by SEG)
- ▶ Exceeding the tolerances as defined in IMDS Recommendation 001

1.2.2 Semi components



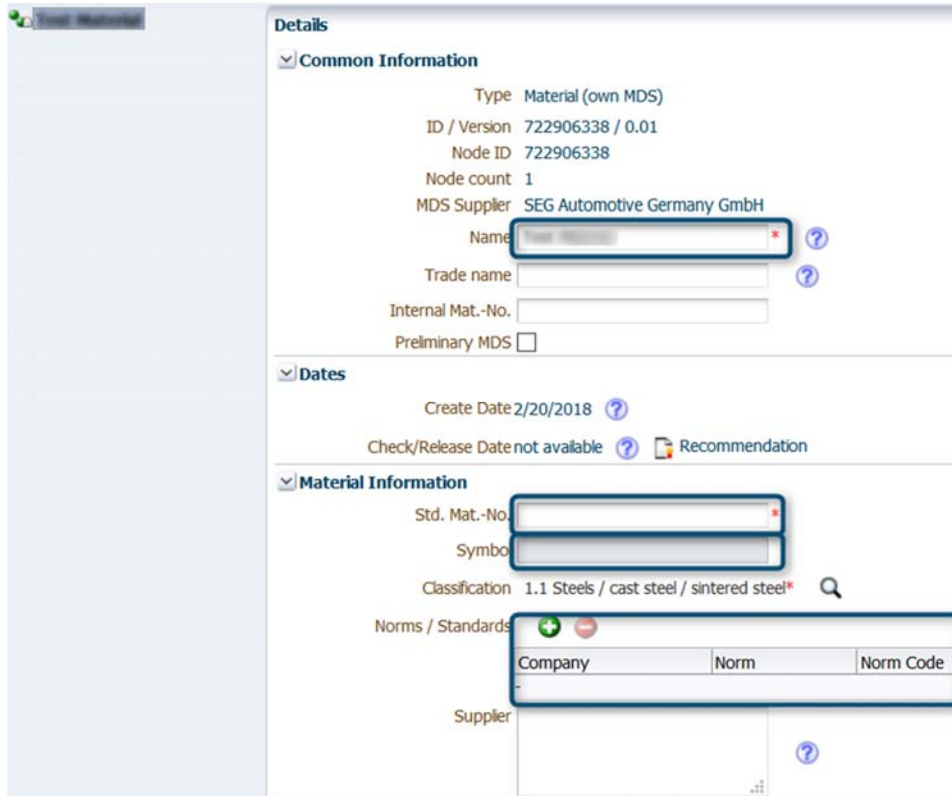
Mandatory entries

- ▶ Article Name:
 - The semi component name must be entered in English (Additional language is optional)
 - The name should not include additional information like a material number
- ▶ Specific weight

Not accepted

- ▶ “Preliminary MDS” flag (only allowed when requested by SEG, e.g. for material approval)

1.2.3 Materials



Details

Common Information

Type Material (own MDS)
 ID / Version 722906338 / 0.01
 Node ID 722906338
 Node count 1
 MDS Supplier SEG Automotive Germany GmbH
 Name * ?
 Trade name ?
 Internal Mat.-No.
 Preliminary MDS

Dates

Create Date 2/20/2018 ?
 Check/Release Date not available ? Recommendation

Material Information

Std. Mat.-No. *
 Symbol *
 Classification 1.1 Steels / cast steel / sintered steel* ?
 Norms / Standards + -

Company	Norm	Norm Code

 Supplier ?

Mandatory entries

- ▶ Name:
 - The material name must be entered in English in the EN field (Additional language is optional)
 - If the material is described in a public standard, or if the nomenclature is described in a public standard (example: ISO 1043-1 to 4 for plastics, ISO 1629 for elastomers or ISO 18064 for thermoplastic elastomers), **then the material name according to this public standard must be entered, example:**
 - steel – EN 10027, JIS norms, example: STM-C 540
 - aluminum alloy – EN 573, JIS norms, example: Al-Si12
 - copper alloy – ISO norms, example: CuAl5
 - plastic – ISO 1043-1 to -4, example: PE-LD

- elastomer – ISO 1629, example: ACM
- thermoplastic elastomer – ISO 18064, example: TPA-ES
- solder – ISO norms, example: S-Sn95.5Ag3.8Cu0.7
- Please also check the SEG order specification. Often the correct naming is given there.
- **No general naming is allowed if there is a name according to a standard or to a SEG order specification available** (e.g. Solder is not specific enough, but e.g. Sn99,3Cu0,7 would be correct)
- If no name is available which is described in a public standard, then the name should be descriptive and the material name should identify the category
 - Aluminum alloy
 - Basecoat, Clear coat
 - Glass
- ▶ Std. material number
 - If a material number is defined in public standards (classifications 1-4), this entry is mandatory.
 - If no Std. material number is available, please state this in the field “Remark”
 - Do not enter here a SEG order specification or standard number (e.g. Nxxxx)
- ▶ Symbol
 - For materials in parts with a weight > 5 g that are thermoplastics (filled/unfilled, ISO 1043, see IMDS 001a), thermoplastic elastomers (ISO 18064, see IMDS 001a), and elastomers (ISO 1629, see IMDS 001a), this entry is mandatory. These materials are typically found in material classifications 5.1a/b – 5.3.
 - Please use the format as defined in related ISO standards
- ▶ Norms/Standards
 - For materials described in public norms supported by IMDS, this entry is mandatory. Classifications 6-9 typically do not have public norms.
- ▶ Supplier
 - Do not enter any information here.

Not accepted

- ▶ “Preliminary MDS” flag (only allowed when requested by SEG, e.g. for material approval)

1.2.3.1 Details on Basic substances

Mandatory

- ▶ Portion: For allowed portion ranges please see IMDS Recommendation 001

Not accepted

- ▶ Confidential flag set
- ▶ Wildcard "not yet specified"
- ▶ Portion "Rest" for wildcards

In general substances listed in GADSL (including SVHC) must not be hidden by wildcards or flagged as confidential.

This is also valid for Conflict Minerals and their compounds (c.f. Dodd Frank Act (H.R. 4173 / Sec. 1502).

1.2.3.2 Application Code and Recyclate

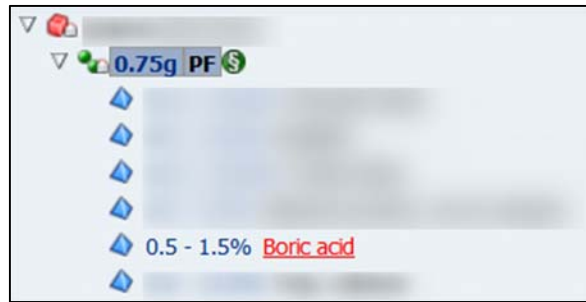
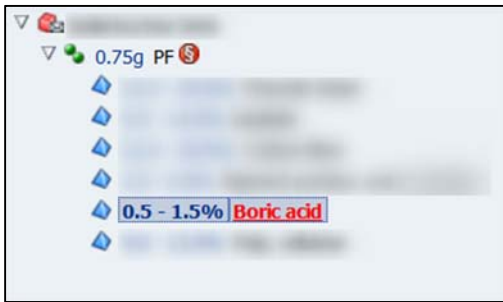
Mandatory

- ▶ Enter application code where required
- ▶ Answer the Recyclate question

1.2.4 Chemistry Manager – Biocidal Product Regulation

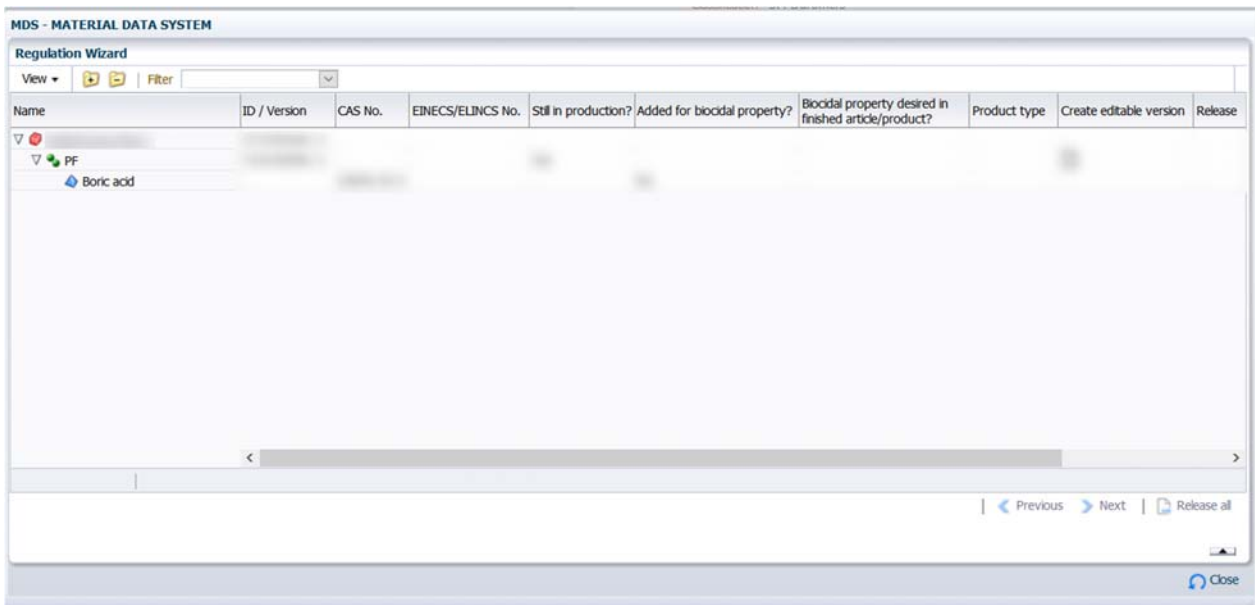
In case the part/material you supply contains a substance that is classified as a biocide (according to Regulation (EU) No 528/2012 or GADSL) you have to enter further information using the "Regulation Wizard".

The "paragraph" symbol next to the affected material shows if it is necessary to enter further information. In case the symbol is red you have to enter information. The color changes to green when all necessary information are entered.



On the "Ingredients" page of the affected material you are able to open the "Regulation Wizard". There you have to answer all open questions and to release the changes you made.

You are able to enter that information also after you sent a MDS to us. This information will be available directly after you entered them.



1.2.5 General specifications

- ▶ We prefer the usage of or accordance with
 - published IMDS Committee data sheets by
 - IMDS Committee (Org.-Unit Id 423)
 - IMDS-Committee / ILI Metals (Org.-Unit Id 18986)
 - Stahl und Eisen Liste (Org.-Unit Id 313)

if the supplied parts comply with the given information.

If materials are delivered **always** with lower substance contents than declared thresholds in the published data sheets, f.e. lead in aluminium alloys, then use your own declaration (this can avoid additional duties coming from laws).

- ▶ The declaration for Electric/Electronic (E/E) components and assemblies **have to be done generally according general rules of IMDS recommendation 001 to allow following all duties from laws, f.e. seeing which declarable substances are contained in which single part.**
 - In the past, it was allowed to use for special E/E components a simplified material reporting structure called Flat BOM (FBOM), described in the Rec001 chapter 5.2 and the Rec019 version 5. Therefore, ZVEI-Rec019 (Org. Unit ID 102677) published special IMDS data sheets. These will be deactivated latest 03.2021, because structure doesn't fulfill legal EU demands to see which declarable substances are contained in which single part. **Reporting in this simplified way, even without usage of these published ZVEI data sheets, will also not be accepted from SEG anymore.**
 - Under Org. Unit ID 77194 (company name ZVEI - Zentralverband E/E-Industrie), ZVEI has published generic component material data sheets that comply with the IMDS Rec001. In some cases, the respective manufacturer can use these instead of the original MDB, see definition in the Rec001 chapter 5.2 (version 10).

- ▶ MDSs that contain several structure types on one level are not acceptable (s. Rule 4.1.A, Recommendation 001)

- ▶ Please replace deleted/hidden substances/MDS before submission

► Handling of modified standard materials:

For classifications 1 to 3, modified standard materials must contain following remarks:

- „mod.“ or „modified“ as part of the material name
- If applicable state the following in „norms / standards: „~DIN/ISO xxx“, „with reference to DIN/ISO xxx“.
- In such cases the Standard Material No. must not be cited

2 List of issues that can lead to a rejection

Rejection reason	Comment
<u>Non compliance with IMDS Recommendations</u>	
Substance content not within the allowed range	The bandwidth for a substance is too large and not compliant with IMDS Recommendation 1.
Portion not within the allowed range	The bandwidth of a material (below a material or semi component) is too large or the bandwidth of a semi component (below a semi component) is too large and not compliant with IMDS Recommendation 1.
Total amount of wildcards and / or confidential substances is larger than 10%	Please refer to IMDS FAQ in terms of calculation method.
Wildcard "not yet specified" is not allowed	Wildcard "not yet specified" must only be used in MDSs for prototype reporting (only on request)
Symbol must be filled in for categories 5.1.a, 5.1.b, 5.2, 5.3	
Node has a mixture of structure types	Below a node there are different types of nodes (e.g. material and component on the same level).
<u>Standard format issues</u>	
The datasheet contains prohibited substances of ELV and GADSL above the threshold and without valid exemption	EU directive 2000/53 EC on end of life vehicles including current annex II and restrictions of GADSL.
Weight is not in line with measured (real) weight of the component	The entered weight in the MDS differs from the weight of the sample part considering the allowed tolerance.
Name not in line with drawing / order specification / standard	
Wrong SEG part number / format of SEG part number	Please enter the SEG part number as follows: – 10 digits (figures or letters), always without dots, blanks or other special characters

Rejection reason	Comment
The data sheet contains one of the following Application Codes (AQ): <ul style="list-style-type: none"> deleted AQ AQ for ELV exemptions that already expired (related to the put on the market date of vehicle) AQ "Other application (potentially prohibited)" 	
Use of wildcard which is no longer available	A deleted wildcard is used within a material
Name is the system default name of a copy (copy_xyz)	For details on name of a MDS see section 1.1.
Classifications 8.1 and 8.2 must only be used for parts as defined in Recommendation 019	For discrete electronic components (which are not fixed to the printed circuit board) materials have to be declared using the appropriate classification.
Check box for "Preliminary MDS" is set	"Preliminary MDS" flag only allowed when requested by SEG, e.g. for material approval or in an early project stage. Final submission is necessary.
Question for Polymeric mark is not answered	For a component, which needs the answer for the polymeric marking question regarding the rules of IMDS, this information is missing.
Material as sub node of another material: material categories do not fit together	
MDS for same part number already existing with other ID	It is not allowed to send a MDS with new ID for a part you already submitted a MDS for. Please create a new version of the data sheet instead of creating a copy with new IMDS ID.
Following rejection might occur in individual cases especially related to old data	
Question "Does the material contain recycle" not answered at all	Either "yes" or "no" has to be selected, "no" is acceptable as default.
VDA classification is deleted	The material uses a classification which has been deleted in IMDS.
AQ no longer valid / not set / not editable	The material uses an AQ which has been deleted in IMDS / has not been set / is not editable.

3 Date of data submission and change management rules

An IMDS entry is required in case of

- ▶ first sampling
- ▶ Changes
 - according to IMDS Recommendation 001, chapter 3.2, within 6 months if
 - content in terms of materials or substances changed
 - the supplied component contains a substance which has been added to N2580-1 or GADSL or other legal requirements and which has not yet been reported in existing MDS
 - a change in mass of a part exceeding the tolerance listed on the production part drawing or in Quality Management Guidelines
 - necessary changes in application codes, f.e. new ones are defined through IMDS
 - duties because of changes in IMDS recommendations are not fulfilled, f.e. new named substance requirements...
 - an incorrect declaration so far
 - on request in individual cases

If an existing MDS has to be updated, please create a new version instead of a copy. Submission for the same part number with different ID is not allowed.

4 Revisions

Rev.	Date	Description/ Reason
1.0	2018/02/20	Initial version
1.1	2018/02/26	Chapter 1.1.4 Chemistry Manager – Biocidal Product Regulation added
1.2	2018/03/08	Minor corrections
1.3	2018/05/24	Side one "Creation of IMDS data sheets..." added
1.4	2019/06/07	Side one "Your supplier number ..." added
2.0	2020/08/07	Topic ZVEI-Rec019 MDS changed on side 2 and 11, recipient data changed from chapter 1.2 to 1.1 and updated, chapter 1.2.1, 1.2.5 and 3 updated, chapter 4 included