



International Material Data System

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Detailed description of IMDS Release 10.0 Enhancements

As agreed upon with the IMDS AI community, this document provides a greater level of detail about the planned implementation in the IMDS Web Application, compared to the IMDS Release Notes. The content provided depends on the current status of implementation and may vary or become more detailed.

1. Check Procedure-related Enhancements and Changes:

Standardized maximum deviation based on component weight and eliminate tolerance entry

IMDS Release 10.0 will introduce range-based default values for maximum deviations. Tolerance values will no longer be displayed in the web application, including legacy data (i.e. the tolerance field will be eliminated).

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%).**

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

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

New Material Checks for Classifications 5.x and 6.x

Normally, materials do not consist of only one substance. In some cases, the name can show that the material contains pigments, fillers, stabilizers among others. Furthermore, certain classifications, such as 5.5.1, imply that the material contains two or more substances, otherwise this category should not be chosen.

The goal is to significantly improve the quality of the materials by reminding MMDS creators to report on the complete information about the additives. These additives may contain certain substances from REACH (e.g. plasticizers) and other regulations.



International Material Data System

The Check Procedure will return a warning if a newly created MMDS with one of the classifications 5.x or 6.x consists of 100% of only one substance. This check will be performed for both newly created and referenced materials.

Remark: For this check, an FAQ in IMDS will explain that suppliers who send those materials might get a rejection for some OEMs. However, the FAQ will also explain that there are some exceptions under which materials can consist of only 100% substance and that therefore, MDSs should not be rejected as a general rule.

Published Material MDS Quality – MMDS Creation Checks


For the process of publishing MMDSs, any possibly occurring warnings will now be converted to Errors. This means that no warnings can occur during the publishing process. A single warning now leads to an Error, and an Error leads to the termination of this process. To increase the quality of published MMDSs, only absolutely “clean” materials will now be published. (Legacy data are not concerned.)

The following MMDS creators will be excluded from the stricter handling:

- IMDS-Committee
- IMDS-Committee / ILI Metals
- Stahl und Eisen Liste

To support this new feature by the possibility to directly find the “clean” published MMDSs in support of this new feature, a new checkbox will be added to the search screen:

“Preferred MMDSs”

An additional icon/symbol () indicates that these comprise IMDS Standard MMDSs (SC Committee, Steel and Iron List, ILI Metals) as well as warning-free MMDSs since IMDS Rel. 10.

If a user selects the check box “Published MDSs” the “Preferred MMDSs” check box will be checked by default.

To find “old” published MMDSs that contain warnings, the new checkbox must be unchecked manually. It is possible that some of the published MMDSs (before IMDS Release 10.0) will comply with the new rules (= check without warnings).

International Material Data System

Polymeric Parts Marking Check

The Parts Marking question can be answered for all 5.x classifications, but in the check, only some classifications are relevant.

The following table shows the classifications and the weight limits up to which the check will return an error or a warning comparing IMDS Release 9.0 to IMDS Release 10.0:

		No	Not yet answered	No	Not yet answered	No	Not yet answered
Rel. 9.0		> 25g	> 25g	> 100 g	> 100 g	> 200 g	> 200 g
5.1	Thermoplastics	-	⚠	⚠	⚠ ⚠	-	-
5.1.a	filled Thermoplastics	-	⚠	⚠	⚠ ⚠	-	-
5.1.b	unfilled Thermoplastics	-	⚠	⚠	⚠ ⚠	-	-
5.3	Elastomers / elastomeric Compounds	-	⚠	-	-	⚠	⚠ ⚠
5.4.1	Polyurethane	-	⚠	-	-	-	-
Rel. 10.0							
5.1	Thermoplastics	-	-	⚠	⚠ ⚠	-	-
5.1.a	filled Thermoplastics	-	-	⚠	⚠ ⚠	-	-
5.1.b	unfilled Thermoplastics	-	-	⚠	⚠ ⚠	-	-
5.2	Thermoplastic elastomers	-	-	-	-	⚠	⚠ ⚠
5.3	Elastomers / elastomeric Compounds	-	-	-	-	⚠	⚠ ⚠
5.4.x	Duromers	-	-	⚠	⚠ ⚠	-	-
5.5.x	Polymeric Compounds (e.g. inseparable laminated trim parts)	-	-	⚠	⚠ ⚠	-	-
					⚠ ⚠	error if MDS not released, else warning	

The existing Polymeric Parts Marking checks need to be reworked to support the relevant regulations:

- The **25g check** will be removed.
- The classifications **5.4.x** and **5.5.x** will be added to the **100g check**.
- The **5.2** classification will be added to the **200g check**.

International Material Data System

2. Self-Certification for MMDS Publishers

To improve the quality of published MMDSs in IMDS, some technical enhancements have been introduced. Publishing other MDSs (Components, Semi-Components) are not affected.

Publishing an MMDS is only possible if:

1. The company is allowed to publish Material MDSs (Administration > Company > Details > Settings > Publish MDS: Material)
2. The User has a User Profile with publishing rights (User (publish), Company Administrator, Advanced Interface User)
Note: The IMDS Advanced Interface user profile is automatically certified and excluded from this process.
3. The User has accepted a Self-Certification Form and is confirmed by a Company Administrator.

Before a User is allowed to publish an MMDS, he/she has to confirm to the publishing rules stated on a (Self-) Certification Form:

MDS - MATERIAL DATA SYSTEM

Certification Form Publish MDS

Dear IMDS User;

to get the right to publish MDSs, you will have to confirm that you adhere to the rules of the recommendation IMDS 001.

Rule 4.4.1.A
A material parent node must have at least one substance or two material child nodes attached to it.

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

Rule 4.4.1.C
Process chemicals used in the production of a material/part that are not contained in the end material/part must not be reported.

Rule 4.4.1.D
Every homogeneous material has to be described as a separate material. For information about the definition of "homogeneous", refer to IMDS 001 Annex I, section 1.1. If a material parent node has material child nodes, the material represented by the parent node must be homogeneous. Two or more materials forming layers cannot be regarded as homogeneous. Example: Zinc coating on steel or paint layers cannot be reported as a material with sub-materials, as the top material is not homogeneous.

I confirm Cancel

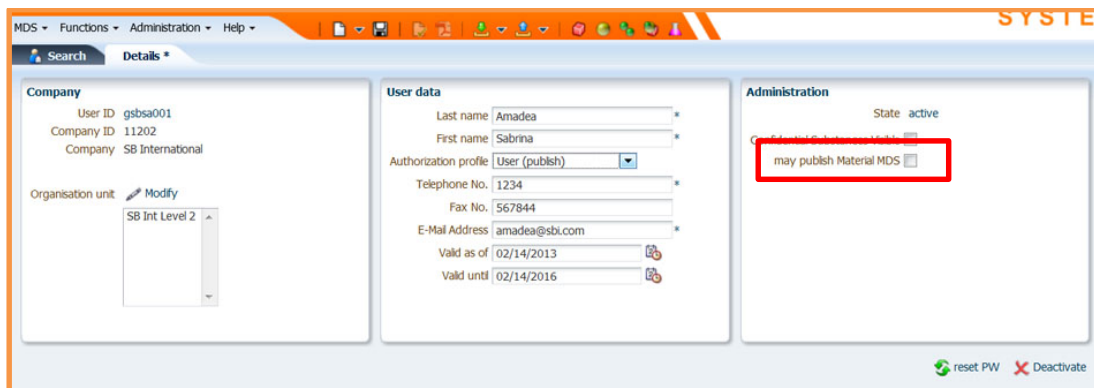
(The displayed text for certification is not final and may be changed.)

All active Company Administrators will receive an email stating that the User requests the right to publish MMDSs and a description of how to confirm this request.

After a Company Administrator has confirmed the User's request, the User is allowed to publish MMDSs.



International Material Data System



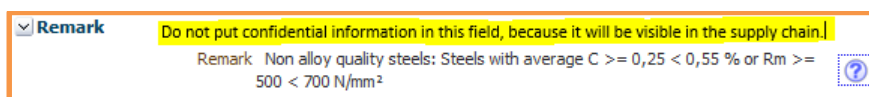
The confirmation by the Self-Certification Form must be renewed annually.

The Self-Certification Form is also available to Users in their Personal Settings.

The Certification text will be versioned and the accepted version documented for each User. So, if the text changes, a User can be prompted again to confirm the Certification text.

3. Explanatory Text in the „Remark“ Section of MMDS

To prevent users from sending confidential information through the supply chain, to the entry field “Remark” an explanatory text will be added to indicate that it remains visible.



All further enhancements for IMDS Release 10.0 should be self-explanatory and therefore are not explained in detail here.