



International Material Data System

January 19, 2024

IMDS Model Office Next rollout planned for February 21, 2024

IMDS Production rollout planned for March 20, 2024

IMDS Release 14.3 Information

(Important: the following enhancements do not require an update of the IMDS Advanced Interface (IMDS-AI) format)

1. Source of Material: Allow bio-based content for Classification 7.1

For all unreleased and newly created Materials of classification 7.1 it will be possible to also enter bio-based content as the Source of Material. Before release 14.3, it was only possible to enter inorganic content.

The calculations and user interface will behave the same way for Classification 7.1, as for any other classification that allows for both mechanical recycling and bio-based content (e. g. classifications 5.x).

For already released Materials of classification 7.1 it will be assumed that there was no bio-based content. For those Materials the bio-based content will be displayed as "0%".

2. MDS Report: New recipient fields

The recipient-specific information under the header "1.2 Product Identification" on the first page of a PDF report created for an accepted MDS will be extended to also include the following fields:

- Drawing No.
- Drawing dated
- Drawing Change Level

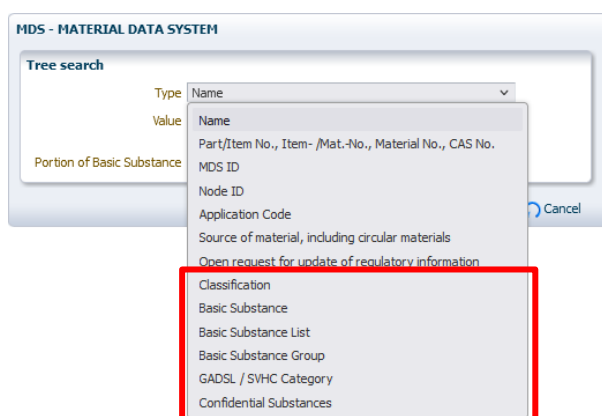
These fields will also be available when creating a report for an own MDS from the "point of view" of a recipient.

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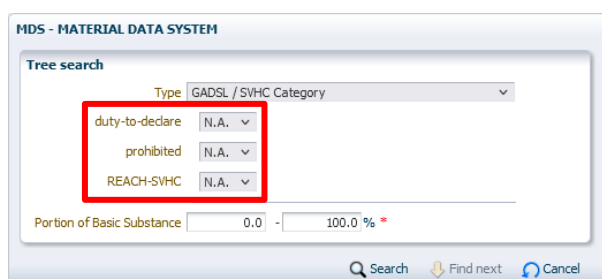
3. MDS Tree Search: New search types

The Tree Search dialog available in the Ingredients view of each Module/MDS will be extended to also cover the following search types, which previously only were available in the Where-Used-Analysis screen:

- Classification
- Basic Substance
- Basic Substance List
- Basic Substance Group
- GADSL/SVHC Category
- Confidential Substances



The specific criteria for each search type will be identical to the ones provided in the Where-Used-Analysis. For example, the search for “Basic Substance” will offer a lookup dialog to search and select a specific substance and in the search for GADSL/SVHC Category, three options will be provided for the different GADSL and SVHC categories (for other search types different additional criteria will be displayed):

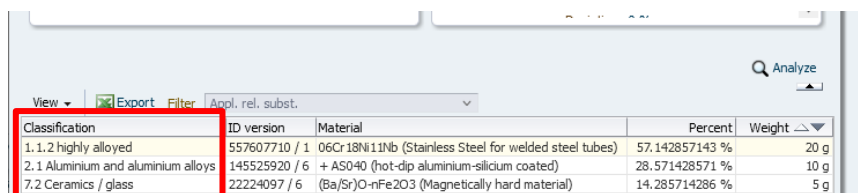


Finally, like the previously existing search types, the new ones will also be linked to the Where-Used-Analysis: when opening an MDS from the Where-Used-Analysis result list, the Tree Search will automatically be triggered with the same parameters. This way the first reference matching the search criteria will automatically be selected after opening the MDS.

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4. MDS Analysis: Display Classification for Materials

The Analysis view of each Module/MDS will be extended to also show the Classification when analyzing for Materials.



Classification	ID version	Material	Percent	Weight
1.1.2 highly alloyed	557607710 / 1	06Cr18Ni11Nb (Stainless Steel for welded steel tubes)	57.142857143 %	20 g
2.1 Aluminium and aluminium alloys	145525920 / 6	+ AS040 (hot-dip aluminium-silicium coated)	28.571428571 %	10 g
7.2 Ceramics / glass	22224097 / 6	(Ba/Sr)O-nFe2O3 (Magnetically hard material)	14.285714286 %	5 g

5. Polymer Material Wizard: New options for flame retardants and plasticizers

The wizard dialog to create the Symbol for materials of Classification 5.1.x will be extended to allow the selection of a flame retardant and/or plasticizer code.

For this purpose, the two existing checkboxes “Plasticizers ISO 1043-3 (optional)” and „Flame retardants ISO 1043-4 (optional)“ will be replaced by drop-down menus. These menus will offer codes to be selected.

- Example plasticizer codes: ODP, PO, TCF, TCP, TOPM
- Example flame retardant codes: 10, 16, 18, 20, 23

Once a value is selected from either of these drop-down menus, the Symbol will be adapted accordingly. While selecting a checkbox prior to release 14.3 resulted in the addition of “P” or “FR” to the Symbol, the selection of a code in the drop-down menu will also add the code. For example, when selecting “DBP” as plasticizer and “52” as flame retardant, “P(DBP) FR(52)” will be added to the Symbol.

By default, nothing will be selected in either drop down menu, leading to the same Symbol as unselected checkboxes prior to Release 14.3.

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6. MDS Copy: Dialog to update referenced versions

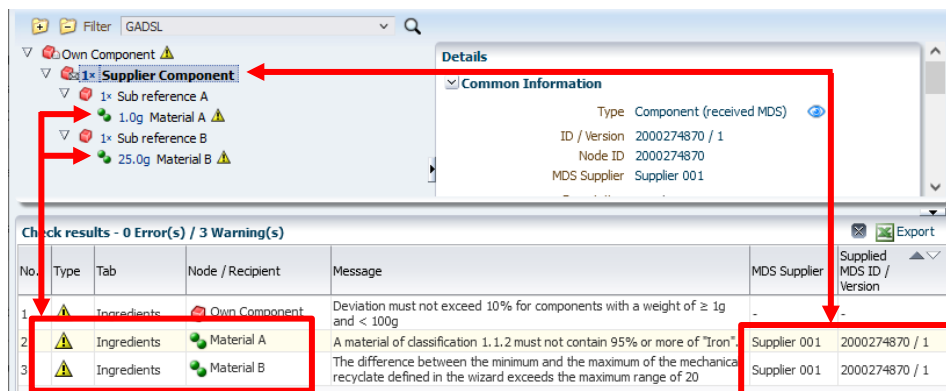
When copying an MDS or when creating a new version, references to Modules or MDSs will no longer be automatically replaced with their newest available version. Instead, a dialog will be displayed and offer the possibility to choose which references to update and which ones to keep.

By default, all references will be updated to their newest version.

This dialog will only be shown when manually copying an MDS, e. g. via the context menu in the MDS search result. It will not be shown when using the “MDS Update” screen to create a new version.

7. MDS Check: Display top-level supplier and MDS

The Check results for each Module/MDS will be extended to also include the ID/Version and supplier of the top-most affected MDS:



The screenshot shows the 'MDS Check' dialog. The top section displays a tree view of the component structure: 'Own Component' (1x) containing 'Sub reference A' (1.0g Material A) and 'Sub reference B' (25.0g Material B). The 'Details' pane on the right shows 'Common Information' for the selected component: Type: Component (received MDS), ID / Version: 2000274870 / 1, Node ID: 2000274870, MDS Supplier: Supplier 001. The bottom section, 'Check results - 0 Error(s) / 3 Warning(s)', contains a table with 7 columns: No., Type, Tab, Node / Recipient, Message, MDS Supplier, and Supplied MDS ID / Version. Three warnings are listed, each with a yellow triangle icon. Red boxes highlight the 'MDS Supplier' and 'Supplied MDS ID / Version' columns for the first two warnings. Red arrows point from the 'Supplier Component' in the tree view to the highlighted cells in the table.

No.	Type	Tab	Node / Recipient	Message	MDS Supplier	Supplied MDS ID / Version
1	Warning	Ingredients	Own Component	Deviation must not exceed 10% for components with a weight of ≥ 1g and < 100g	Supplier 001	2000274870 / 1
2	Warning	Ingredients	Material A	A material of classification 1.1.2 must not contain 95% or more of "Iron".	Supplier 001	2000274870 / 1
3	Warning	Ingredients	Material B	The difference between the minimum and the maximum of the mechanical recycle defined in the wizard exceeds the maximum range of 20	Supplier 001	2000274870 / 1

This helps to quickly identify the respective supplier to request an updated version in which the displayed issues no longer exist.

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8. MDS Check: Only check entered ranges of mechanical recycle

The check for ranges of mechanical recycle exceeding 20% will be adapted to only consider entered values.

For MDSs created before the introduction of detailed recycle information in Release 14.0, a message will be shown in case the range of the entered total pre- and post-consumer mechanical recycle exceeds 20%.

☒ Source of material, including circular materials

Does the material contain recycle? Yes

Mechanical (pre-consumer) 10.0 - 100.0 % 

Mechanical (post-consumer) 10.0 - 100.0 % 

Chemical (pre-consumer) -

Chemical (post-consumer) -

Certified according to -

Warning(s)

Node / Recipient	Message
MMat	The difference between the minimum and the maximum of the mechanical pre-consumer recycle exceeds the maximum range of 20.
MMat	The difference between the minimum and the maximum of the mechanical post-consumer recycle exceeds the maximum range of 20.

For recycle information entered since Release 14.0, the message will only be shown in case the entered ranges in the dialog exceed 20%. The calculated total portion of mechanical recycle will no longer be checked.

☒ Source of material, including circular materials

Does the material contain recycle? Yes 

Mechanical (pre-consumer) 0.6 - 41.8 % 

Mechanical (post-consumer) 0.8 - 43.2 % 

Chemical (pre-consumer) -

Chemical (post-consumer) -

Certified according to -

Is the material (partially) bio-based? Yes

Content of secondary bio-based material 24.0 - 31.6 % mass-balanced

Certified according to -

Warning(s)

Message

The difference between the minimum and the maximum of the mechanical pre-consumer recycle defined in the wizard exceeds the maximum range of 20

The difference between the minimum and the maximum of the mechanical post-consumer recycle defined in the wizard exceeds the maximum range of 20

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Source of material, including circular materials

All values entered here refer to the entire material, not only the polymer content. E.g., in case of filled polymers the recycle content can only be 100% if the filler material is also 100% recycle.

Content of inorganic or fossil-based material

60.0 - 60.0 % ?

Does the material contain recycle?

Yes

Content of primary inorganic or fossil-based material

20.0 - 90.0 %

Content of recycle

10.0 - 80.0 %

Content of mechanical recycle thereof

100.0 - 100.0 % ?

Content of pre-consumer recycle thereof

10.0 - 87.0 % ? 

Content of post-consumer recycle thereof

13.0 - 90.0 % ? 

Content of chemical recycle thereof

0.0 - 0.0 % ?

Content of bio-based material

40.0 - 40.0 % ?

Content of primary bio-based material

21.0 - 40.0 % ?

Content of secondary bio-based material

60.0 - 79.0 % ? mass-balanced Yes ?

Certified according to

- ?

