



INTERNATIONAL
MATERIAL DATA
SYSTEM

••• Create Tips – Components



This presentation gives a recommended step-by-step procedure for creating MDSs in the IMDS system, with an emphasis on the creation of components.

While this presentation gives recommendations on how to input data, it does not replace the individual OEM requirements that can be found on:

[Public pages > FAQ > OEM Specific Info](#)

Nor does it replace specific product recommendations (login then select menu item [Recommendation](#))

Note: These examples have been developed in the Model Office and represent demonstration data only.

About the Create Tips Series

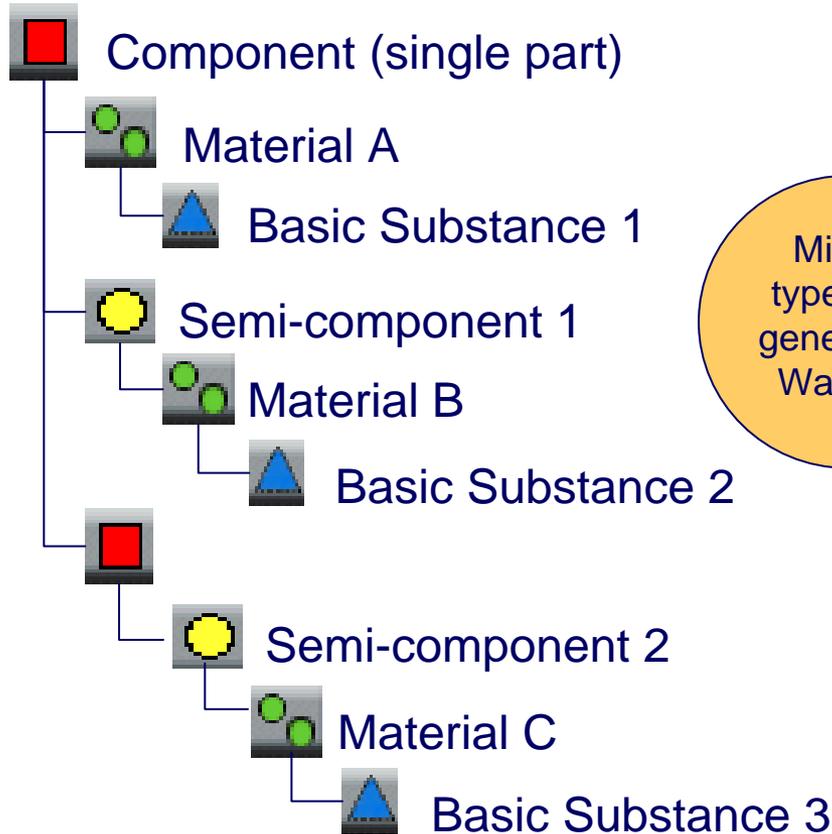
- The series includes create tips for the following:
 - Materials
 - Components
- Originally, the tips were grouped in one large document, but by popular demand, it was divided into smaller documents for ease of use.

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*In Slide Show mode,
click on a link to go
directly to that section*

Basic MDS Structure



Mixing types will generate a Warning

In IMDS, the requirement is to reduce all parts to Basic Substances.

*The system allows mixing of types at the same level (siblings). However, there are some OEM's and Tier One's that require all siblings be of the same type. Therefore, understand **your** customer's requirements before expending a lot of effort – *please review Recommendation 001 and other recommendations that pertain to your product.**

Where To Find Recommendations

Notice the menu options, **Create and Search**

- The **Recommendation** link will bring up a screen similar to the following
- **IMDS 001** is commonly referred to as Recommendation 001
- Check this screen once a month for changes

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Phipps, Kathy - EDS (RMC Troy) [9763]

MATERIAL DATA SYSTEM

Recommendation

Show latest versions

Initial Date	Last Modi...	Number	Title	Download
08/11/2004	03/20/2007	IMDS 006	Automotive Lubricants	006 [pdf] (English)
02/19/2003	03/24/2004	IMDS 007	Steel Flat Products (strips and sheets), Metallic Coated (hot-dipped or electrolytically)	007 [pdf] (English)
02/19/2003	02/19/2003	IMDS 008	Electroplated (electrolytically deposition) fasteners	008 [zip] (English) 008a [pdf] (English) 008b [pdf] (English)
02/19/2003	02/19/2003	IMDS 009	Components... electrolytically	009 [zip] (English) 009a [pdf] (English) 009b [pdf] (English)

When there is an "a" and a "b" part shown for a Recommendation, refer to the "b" part here rather than using the link in "a" (file may not launch properly).

Cancel

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How to Search for a Component



Search Filters – Ingredients Page

Begin by selecting Search from the IMDS menu. Then select the Filters.

Component Semiconpon... Material Basic Substa... All MDS/Modules

Article Name: Language: English German

Part/Item No., It...: Development Sample Report:

ID-No.: Current versions All versions

Date: published / acc... or created (own MD...

- Article Name is the MDS description given on the Ingredients page if your company created it or you are searching in Published data. It is the description from the Recipient Data page if it was sent/proposed to your company. **Note: If you cannot find the MDS, you may want to do a wild card search, as there must be an EXACT match for it to display, and leading spaces may be an issue.**
- Part/Item No. is the Part/Item number from the Ingredients page if your company created it or you are searching in Published data. The information can be found on the Recipient Data page if it was sent/proposed to your company. **Note: If you cannot find the MDS, you may want to do a wild card search as there must be an EXACT match to display, and leading spaces may be an issue.**
- ID-No. is the IMDS ID number.
- Language doesn't display for component searches (only appropriate if searching for a material)
- Development Sample Report, if checked, will return only the MDSs with Development Sample Report checked on the Ingredients page.
- Version:
 - Current Versions displays the MDS with the highest version number of all the versions in edit mode, if your company created it; or the highest version number that you have visibility to if another company created it. **Warning: If your supplier creates MDSs using "copy/new version" when they send to another company, you may not have visibility to the latest version and will need to use All Versions.**
 - All Versions lists all of the versions of the specified component.
- **The BEST way to find anything in IMDS is by IMDS ID. Also, ...**
 - **Determine if it was created by your company or another**
 - **If you cannot find the MDS with Current versions, try All versions**
 - **Use Wild card searches (e.g. if looking for published SAE 1010 steel, use *1010 in the Name field)**

Search Filters – Creation Dates

Date:	<input type="checkbox"/> published / accepted / internally rel...	or	<input type="checkbox"/> created (own MD...
(only for MDSs)	from: <input type="text" value="03/26/2007"/>	to: <input type="text" value="04/26/2007"/>	(MM/DD/YYYY)

- Published / accepted / internally released – this option will return only RELEASED MDSs (whole number version) and whether they are created by your own company or a supplier or both will depend on how you set other flags on this screen.
- Created (own MDS) – this option will return only MDSs and modules created by your company, regardless of whether they have been released or not.
- Date from/to - this option will limit your results to MDSs *released* during the time frame (if 1st box checked) or *created* during the time frame (if 2nd box checked). **Note: The dates must be given in the specified format. Only MDSs have the date tracked.**

Search Filters – Supplier Selected

Supplier MDSs: accepted MDSs published MDSs
Supplier: (Please select...) +
 all save list

Components,
Semi-Components,
and All MDS/Modules
Tabs

Supplier MDSs: accepted MDSs published MDSs
Supplier: ILI [4844] + -
IMDS-Committee / ILI Metals [5203]
 all Stahl und Eisen Liste [1038] save list

Materials Tab: See the
3 IMDS-Committee
companies lists

- You can limit your search of Supplier MDSs to data from a select list of suppliers.
 - Accepted MDSs – returns only data that has been accepted by your company
 - Published MDSs – returns only data that has been published. To have datasheets returned from any of the IMDS-Committee companies, add them to the Supplier list.
 - Supplier – adding suppliers will restrict search returns to only the suppliers listed. See next page for how to add/remove suppliers and a more complete discussion of how this works.
 - All – selecting this will search all suppliers, NOT just those on the list
 - Save List – saves the supplier list for future sessions. This list is saved to the login ID.
- ***The “save list” from this Search screen is also attached to the Received screen allowing a company to have users focused on certain suppliers. There is a second “save list” available on the Sent screen.***

Search Filters – Add to Supplier List

The screenshot shows a web browser window titled "Company - Microsoft Internet Explorer provided by EDS COE". The browser address bar shows "Administration -> Company -> Search". The main content area is titled "Company" and contains a "Search Criteria" section. There are two radio buttons: "Company" (selected) and "Org.-Unit". Below these are input fields for "Company Name", "Company-ID", "DUNS Number", "zip code", "City", "User Name", and "User ID". A tooltip for the "DUNS Number" field reads "Manufacturing DUNS in the format 99-999-9999". At the bottom right of the search criteria section are "Search" and "Cancel" buttons. To the left of the browser window, a partial view of the "Supplier MDSs" interface is visible, showing checkboxes for "accepted MDSs" and "published MDSs", and a list of suppliers including "IMDS-Committee [423]", "IMDS-Committee / ILI Metals [18986]", and "Stahl und Eisen Liste [313]".

- To add another supplier to the list shown above, click on the 
- A screen appears for Search Criteria, where you can either search on a Company or an Org Unit.
- After the search list returns, select your supplier(s) and click Apply. In the example below, I added EDS (IMDS Boarding) to the Supplier list. The example is from the model office, not the production system.
- **Multiple suppliers** may be selected from the returned search list if you click on each desired company or Org Unit before clicking on Apply.

The screenshot shows the "Supplier MDSs" interface. It has checkboxes for "accepted MDSs" and "published MDSs". Below these is a "Supplier:" section with a list box containing "EDS (IMDS Boarding) [7340]", "IMDS-Committee [423]", and "IMDS-Committee / ILI Metals [18986]". There are "all" and "save list" checkboxes. To the right of the list box are "+" and "-" buttons. A yellow arrow points to the right from the bottom right corner of the screenshot.

Search Filters – Remove from List

Supplier MDSs: accepted MDSs published MDSs

Supplier: all

EDS (IMDS Boarding) [7340]
IMDS-Committee [423]
IMDS-Committee / ILI Metals [18986]

+ -

save list

- To remove a supplier from the Supplier list, first highlight the supplier to remove (EDS (IMDS Boarding) above) and then click on the 
- The results below show the supplier was removed

Supplier MDSs: accepted MDSs published MDSs

Supplier: all

IMDS-Committee [423]
IMDS-Committee / ILI Metals [18986]
Stahl und Eisen Liste [313]

+ -

save list

Search Filters – Organizational Info

Own MDSs/Modules: own MDSs own Modules

Assigned Org.-Unit: (only for MDSs)

Assigned Contact: (only for MDSs)

last edited by me

- Own MDSs – the search results will only return MDSs, not modules created by company
- Own Modules – the search results will only return modules, not MDSs
- Assigned Org.-Unit – the search result will be limited to MDSs assigned to a particular Organizational Unit
- Assigned Contact – the search result will be limited to MDSs associated with the contact person selected. Contacts are populated by the Client Manager under Administration > Contact Person
- Last edited by me – the search result will be limited to those MDSs or Modules last edited by the user ID that is currently logged in

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 **Special Filters for Materials**



Material Search Tips

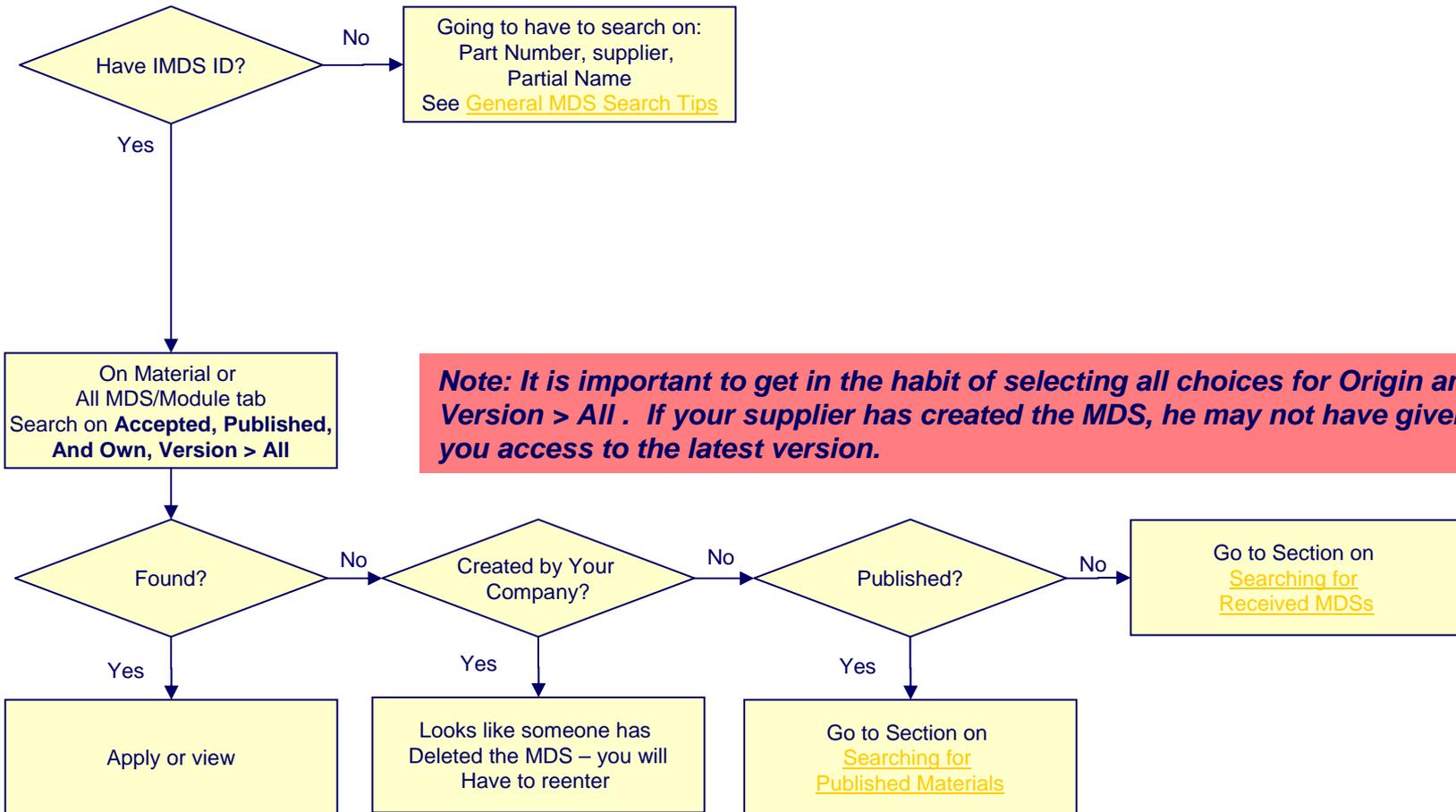
- Best to use IMDS ID
- Wild cards (*), partial names, etc. may also be useful (discussed later)
- You only have access to materials your company has created, data that has been published, and data that was sent to your company and accepted.
- The IMDS-Committee only publishes materials to a Public Norm and where that Norm has been defined by the basic substances that sum to 100%. (Some public norms give characteristics of the material but not the substances defined to 100%)

Filters – Material Specific

Trade name:	<input type="text"/>	Norm/Standard:	<input data-bbox="1416 287 1493 322" type="button" value="+"/>
Std. Mat.-No.:	<input type="text"/>	Classification:	<input data-bbox="1416 332 1493 368" type="button" value="+"/>
Symbol	<input type="text"/>		

- Trade name – if given, the trade name of the material (e.g. Teflon)
- Std. Mat.-No. – Standard material number - only available on selected material classifications.
- Symbol – Material symbol – only available on selected material classifications.
- Norm/Standard – the given Norm/Standard
- Classification – the material classification

Searching for Materials



Note: It is important to get in the habit of selecting all choices for Origin and Version > All . If your supplier has created the MDS, he may not have given you access to the latest version.



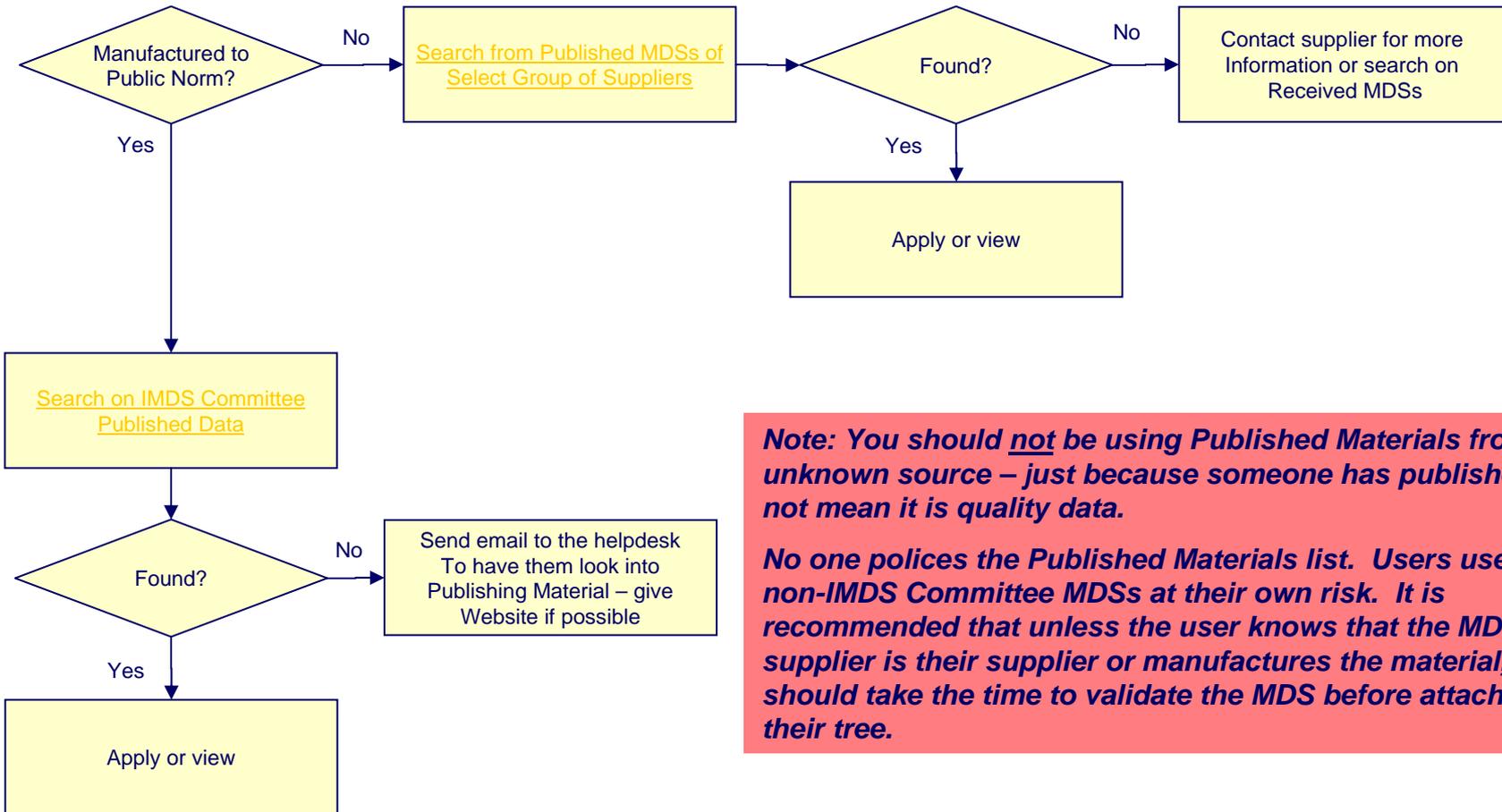
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 **Searching for Published Materials**





Searching for Published Materials (ID Not Known)



Note: You should not be using Published Materials from an unknown source – just because someone has published does not mean it is quality data.

No one polices the Published Materials list. Users use the non-IMDS Committee MDSs at their own risk. It is recommended that unless the user knows that the MDS supplier is their supplier or manufactures the material, they should take the time to validate the MDS before attaching it to their tree.



Searching for IMDS Committee Published Materials

- The IMDS Steering Committee has published MDSs that comply with a material standard and many companies prefer that you use this data instead of creating your own. If you want a material standard published, send to the helpdesk and we will try to add. Not all standards contain a complete list of substances. We can only publish if the standard includes substances that sum to 100%. These have been added to your saved company list when searching for materials. A list of Public Norms can be found Public Pages > FAQ > General Info > ***What do the Norms/Standards acronyms mean?***
- Guide to the IMDS Steering Committee Published Materials:
 - Stahl und Eisen Liste (313) - predominantly steels and steel alloys – no norm/standard on most of them but contain a material number of form 1.nnnn where nnnn is a 4 digit number.
 - IMDS-Committee (423) – coatings and alloys and also some semi-components
 - IMDS-Committee / ILI Metals (18986) – steels published to other standards not in the Stahl und Eisen Liste.
- The IMDS Committee materials, with very few exceptions, have been entered with the UNS number as the standard material number. It is suggested that you perform a wildcard search on the standard material number (i.e. *10211 in the Std. Mat. No field as it may have been entered as G10211 or G 10211).
- The IMDS Committee materials, with very few exceptions, have been entered with the public norm. It is suggested that you perform a wildcard search on the norm (i.e. select norm ASTM and *32 as it may have been entered as B32 or B 32)
- Since IMDS Committee materials are undergoing cleanup of duplicate data, it is suggested that you get in the habit of performing a search each time on the norm or standard material number instead of relying on an MDS ID.



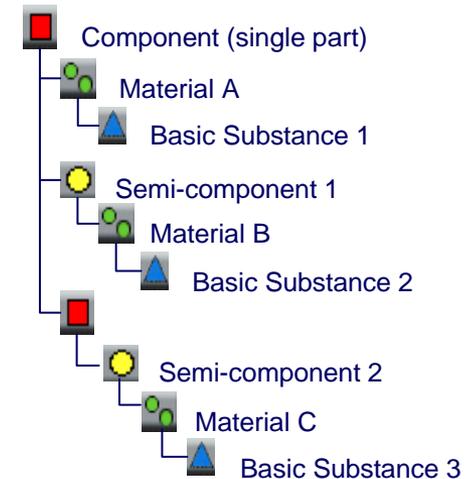
INTERNATIONAL
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 **Create a Component**



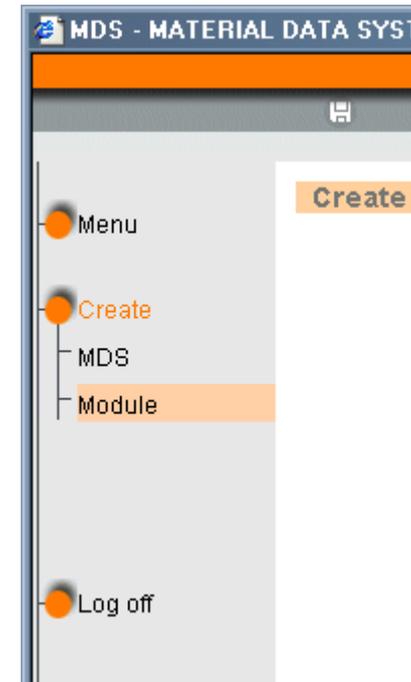
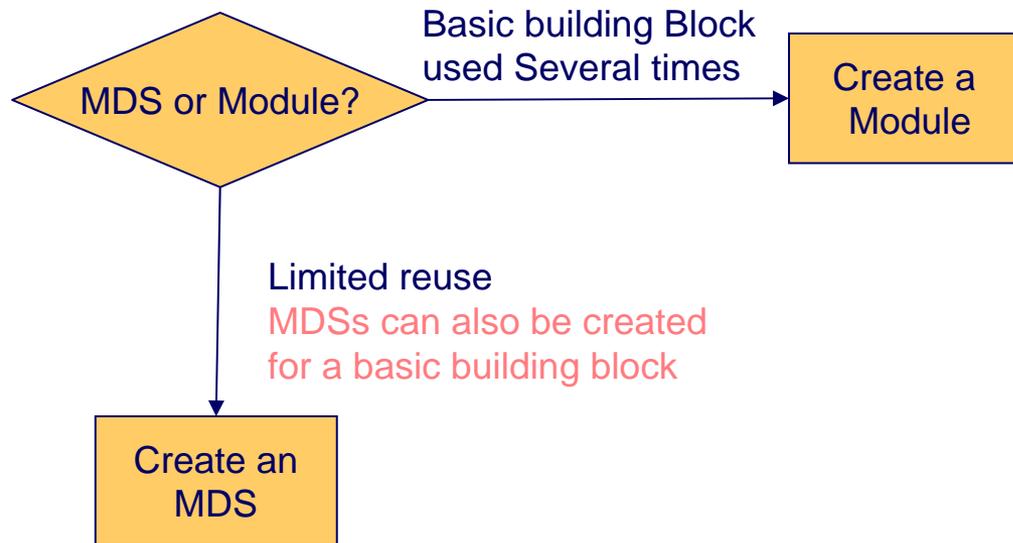
IMDS Hierarchy

- Be aware of the rules about the hierarchy (tree structure) in IMDS when creating a component or semi-component.
- We commonly think of the tree structure in IMDS in terms of a “parent” and “child” relationship.
 - A **Material** “parent” can only have materials or substances as a sub-node or “children”.
 - A **Semi-component** “parent” can only have semi-components or materials as a sub-node or “children”.
 - A **Component** “parent” can have components, semi-components, or materials as a sub-node or “children”.
 - Just as in a human family, a “parent” in IMDS can have several “children”. However, Recommendation 001 says that all “children” of the same parent must be of the same type. This means that you may have to introduce a component or semi-component into your tree structure that wouldn’t normally be there and attach the semi-component or material to it in order to keep all the children of the same parent the same type.
- You can easily “change” a material or semi-component into a component by attaching it to a component “parent”. You cannot change a component into anything lower.



First, Select MDS or Module

Select from the Create menu options



- MDSs require all 3 chapters of data to be filled in - Ingredients, Supplier Data, and Recipient Data
- Modules only require Ingredients chapter to be defined, so cannot be sent to a recipient or assigned to an Org Unit.

Next, Choose Component/Semi-component

Please make your selection:

Component

Semicomponent

Material

- Most of the MDSs entered in IMDS are either Components or Materials. However, there is a need for the Semi-component.
- Component – represents a part, or a placeholder in the tree structure to make the structure meet Recommendation 001 requirements. It has weight and is used in an assembly in whole numbers (e.g. 1 of n, 2 of n)
- Semi-component – represents a product that is used per weight, length, volume. It does not have weight until added to a component, although in Release 7.0, a function was added to track the density. Examples – leather hide, wire, etc.

❖❖❖ Create a Component

Please make your selection:

Component Semiconductor Material

We selected **MDS**
earlier.
Now, select **Component**

Fill in the Ingredient Details

- Fill in the Description and Part/Item No.
- It is how you refer to the item within your company and used for finding it later.
- Theoretically, anything can be used for the Part/Item No. and Description – but if it will later be attached to another tree, some OEMs and hence Tier 1s may have other requirements.
- **If the part is to be sent to a customer, their Part number and Description MUST appear in the Recipient Data because they see values from the Recipient Data in their view, NOT values shown on this screen.**

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Phipps, Kathy - EDS (RMC Troy) [9763]

MATERIAL DATA SYSTEM

Ingredients

Component_90000... 900000431 / 0.01 (Node ID 900000431)

Create MDS Ingredients

GADSL

Component_900000431

Details

Type	Component (MDS)
ID / Version	900000431 / 0.01
MDS Supplier	EDS (RMC Troy)
Description	ient for 6.1 Create tips
Part/Item No.	
Measured Weight per Item	0 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	0 [g]
Deviation	0 [%]
Development	

Tree search Save Next

You must change the default Description. The name shown depicts the number of MDSs created, 900000431. Make the name descriptive.

Fill in the Weight

- Enter the weight, select the units, and select the tolerance percentage (%).
- Tolerance is not the same as the part design, but used for checking to see if all the component weights sum correctly.
- At this point, let's hit **SAVE**

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Phipps, Kathy - EDS (RMC Troy) [9763]

Ingredients

Component for 6.1... 900000431 / 0.01 (Node ID 900000431) Search Edit MDS Ingredients

GADSL

Component for 6.1 Create tips

Details	
Type	Component (MDS)
ID / Version	900000431 / 0.01
MDS Supplier	EDS (RMC Troy)
Description	Component for 6.1 Cr
Part/Item No.	KP-6978-r1
Measured Weight per Item	120 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	0 [g]
Deviation	0 [%]
Development Sample Report	<input type="checkbox"/>

SearchResult Save Next

Weight - fill in the weight and then select the units.
Note: Metric units used

If your customer does an Analysis of the total weight of materials, using a Tolerance that is > 0% may cause a flag and result in an email to you telling you to fix it.



••• Add the Structure

- Under a component, you can add other Components, Semi-Components or Materials.
- Let's start with a material since you will probably have a component made of all materials initially.
- Click on the **Add Existing Material** button

Callout 1: Create a sub component in tree – or “on the fly”

Callout 2: Create a semi-component in tree – or “on the fly”

Callout 3: Add existing Material to the tree

Callout 4: Add existing component or semi-component to the tree (accepted, published, or created separately by your company)

Tree search

Apply Material

- To add a Material for fasteners:
 - Search using the wildcard in the name field, *fastener
 - Select Published materials

Note: If you select a material that does not have a whole number version, you will have to come back later and release it before you can release or send the component.

MDS, Module and Substance search - extended - Microsoft Internet Explorer provided by EDS ...

MDS and Module Search

Search Criteria: Name=*fastener, published MDSs=Yes, Supplier=IMDS-Committee [423], IM... [more...]
1 item found. Ordered ascending by "Name, >Symbol<"

No.	Name, >Symbol<	Trade name	Mat.-No.	ID / Version	Supplier
1	Material for Fasteners Prope...	Material for Faste...		68124 / 6	IMDS-Commit...

Apply Preview Clipboard New Search Cancel

Select Apply

••• Add the Material Weight

- All the information except the weight is from the Material MDS - you cannot change anything except the weight
- Fill in the weight and Units - in this case the component has 100g of this material
- **Save** and run the check

Run Check

Note that the version of this material is 6 – it is released. You cannot make changes on a released MDS.

Fill in Weight and select units

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer

Ingredients
Component for 6.1... 900000431 / 0.01 (Node ID 900000431)

Menu
Search
MDS
Ingredients
Recyclate information
Supplier data
Recipient data
Log off

Component for 6.1 Create tips
Material for Fasteners Property Class <=12.9 (Fla...
Carbon
Phosphorus
Sulphur
Silicon
Manganese
Chromium
Molybdenum
Nickel
Vanadium
Aluminium (metal)
Copper
Tin
Boron

Details
Type Material (MDS)
ID / Version 68124 / 6
MDS Supplier IMDS-Committee
Name Material for Fastene (EN)
Trade name Material for Fastene (EN)
Internal Mat.-No.
Std. Mat.-No.
Symbol
Classification unalloyed, low alloyed
Norms/Standards EN 20898-2
ISO 898-1
Inhouse Norms
Supplier
Remark Material for Fasteners Property Class (EN)
Weight 100 g
Development Sample Report No

Replace Tree search SearchResult Save Next

Result of Check – Errors

Review and resolve errors

The screenshot shows the MDS - MATERIAL DATA SYSTEM interface. A 'Check Results' dialog box is open, displaying the following error messages:

- Error: Component for 6.1 Create tips: The deviation between measured and calculated weight per item exceeds the entered tolerance.
- Error: Component for 6.1 Create tips: Contact must be specified.

Below the error messages, it states: "All existing errors need to be eliminated before any further processing can take place." Buttons for 'Show', 'Check', and 'Cancel' are visible at the bottom of the dialog.

In the background, the 'Details' panel for a component is visible, showing the following information:

Property	Value
Type	Component (MDS)
ID / Version	900000431 / 0.01
MDS Supplier	EDS (RMC Troy)
Description	Component for 6.1 Create tips
Part/Item No.	KP-6978-r1
Measured Weight per Item	120 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	100 [g]
Deviation	-16.666667 [%]
Development Sample Report	<input type="checkbox"/>

Stated weight – 120 g
Calculated weight – 100 g
Either add more material or change one of the weights



Weight Changed

The screenshot shows the MDS - MATERIAL DATA SYSTEM web interface. The browser title is "MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE". The user is identified as "Phipps, Kathy - EDS (RMC Troy) [9763]". The page title is "Ingredients" and the component is "Component for 6.1... 900000431 / 0.01 (Node ID 900000431)".

The interface includes a left sidebar with "Menu", "Search", "MDS", "Ingredients", "Recycle information", "Supplier data", "Recipient data", and "Log off". The main content area shows a tree view of ingredients with "Carbon" selected. The "Details" panel on the right displays the following information:

Type	Component (MDS)
ID / Version	900000431 / 0.01
MDS Supplier	EDS (RMC Troy)
Description	Component for 6.1 Cre
Part/Item No.	KP-6978-r1
Measured Weight per Item	100 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	100 [g]
Deviation	0 [%]
Development Sample Report	<input type="checkbox"/>

Two yellow callout boxes are present: one pointing to the "Deviation" field with the text "Top node weight changed so now deviation is 0", and another pointing to the "Next" button with the text "Select Next".

❖❖ Add Recyclate Information

- You can only add Recyclate information if you are in **EDIT** mode (version is a decimal and you are not it “handshake” status).
- If you have the default **NO** clicked, all values will be grayed out.
- **Save**

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Phipps, Kathy - EDS (RMC Troy) [9763]

MATERIAL DATA SYSTEM

Ingredients
Component for 6.1... 900000431 / 0.01 (Node ID 900000431)

Search Edit MDS Ingredients

GADSL

Component for 6.1 Create tips

Material for Fasteners Property Class <=12.9 (Flat Bill)

Carbon
Phosphorus
Sulphur
Silicon
Manganese
Chromium
Molybdenum
Nickel
Vanadium
Aluminium (metal)
Copper
Tin
Boron
Iron

Details Recyclate Application

Material: Material for Fasteners Property Class <=12.9 (Flat Bill)

Does the material contain recyclate?
 Yes No

Content of post industrial recyclate:
(e. g. from injection molding, rejected parts etc.)
From [] to [] [%]

Content of post consumer recyclate:
(e. g. from scrapped and damaged vehicles, packaging wastes, scrapped household appliances etc.)
From [] to [] [%]

Replace Tree search SearchResult Save Next

Fill in information if desired/required (more details next)

Recyclate Data

- Recyclate is the recycled content of the material. Although it is associated with the material, the tab appears only when the material is added to a component or a semi-component.
- If the material contains Recyclates, select the type and enter the percentage present:
 - **Post industrial** recyclates might come from injection molding, rejected parts, etc.
 - **Post consumer** recyclates might come from scrapped and damaged vehicles, packaging wastes, scrapped household appliances, etc.
- This information is important as there are some governments that give rebates for using recycled materials and there is a requirement in the future to be using recycled content.

Application Codes

- While we were on the Recyclate tab, we noticed there was also an Application Tab.
- That means that one or more of the substances on the tree structure is a substance that requires an application code to indicate how the substance is used.

Filter that highlights all substances requiring an application

Since Nickel requires an application, we have a new tab

Component for 6.1... 900000431 / 0.01 (ID 900000431)

Appl. rel. subst.

Material for Fasteners Property Class <=12.9 (Flat Bill)

Carbon
Phosphorus
Sulphur
Silicon
Manganese
Chromium
Molybdenum
Nickel
Vanadium
Aluminium (metal)
Copper
Tin
Boron
Iron
Titanium

Details Recyclate **Application**

Component: Component for 6.1 Create tips
Origin: own
Material: Material for Fasteners Property Class <=12.9 (Flat Bill)

1 item found.

Basic Substance	%(MAX)	Application
Nickel	1.7	Not applicable

We've used the **Appl.. Rel. subst.** filter to highlight all substances requiring an application (Nickel highlighted)

SearchResult Save Next

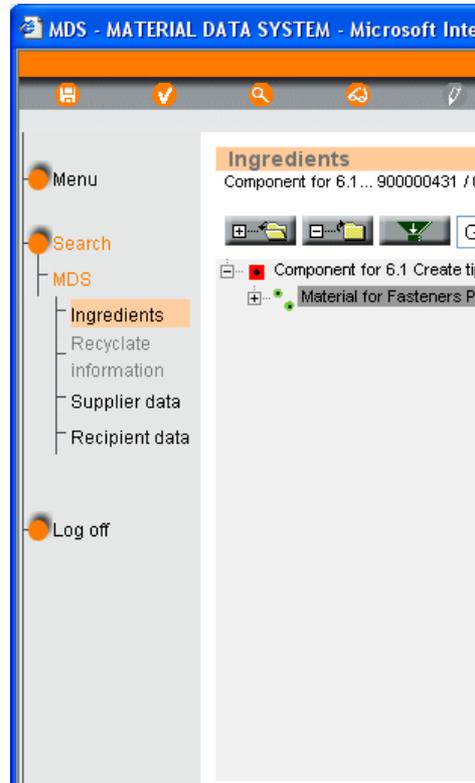
Application Relevant Substances

- Although many substances are either Declarable, Prohibited, or Declarable always and Prohibited in some applications (D/P), there are only certain families that require you to indicate how you are using the substance. They are:
 - Lead
 - Mercury
 - Cadmium
 - Hexavalent Chromium
 - Polycyclic Aromatic Hydrocarbon (PAH)
 - Nickel (nickel only, not the family)
- **For further information** on the possible application codes, see Public Pages > FAQ > Information on materials > Is there any further explanation of how to determine the correct Application ID?



Application Tab

- This example is for illustrative purposes only. The system will make a suggestion
- You can click on the underlined link to see the other options – **you can only make changes if the MDS is in edit mode.**



Based on the material classification, the substance, and the weight of the substance, the system has suggested an application

It is the responsibility of the user to determine based on the PRODUCT if this is the correct application.

Origin:	own
Material:	Material for ... property
	Class <= 12.9 (
1 item found.	
Basic Substance	% (MAX) Application
Nickel	1.7 Not applicable

Note: although the system may suggest an application code, it is the responsibility of the user to ensure that the correct application is selected.

For more information on the possible applications – see Public Pages > FAQ > Information on materials > Is there any further explanation of how to determine the correct Application ID?

Selecting an Application

- There is a complex matrix that is used to determine which applications are valid.
- Select the correct Application

Note: although the system may suggest an application code, it is the responsibility of the user to ensure that the correct application is selected.

Only valid choices are displayed. These choices are based on the material classification, the substance, and the weight of the substance

The screenshot shows the MDS - MATERIAL DATA SYSTEM interface. The main window displays the 'Ingredients' section for a component. The 'Application' tab is selected, showing a list of application codes and descriptions. A yellow callout bubble points to the 'Details' tab, indicating that users should go back to it to select the top of the tree.

Application	Description
Component for 6.1 Create tips	Component for 6.1 Create tips
own	own
Material for Fasteners Property Class <=12.9 (Flat Bill)	Material for Fasteners Property Class <=12.9 (Flat Bill)
Nickel	Nickel
1.7 % (MAX)	1.7 % (MAX)
not applicable	not applicable
Component of a surface likely to be routinely touched (eg. handles and buckles), that have a nickel release rate exceeding 0.5µg/cm2/week.	Component of a surface likely to be routinely touched (eg. handles and buckles), that have a nickel release rate exceeding 0.5µg/cm2/week.
Surface not routinely touched or release rate < 0.5µg/cm2/week	Surface not routinely touched or release rate < 0.5µg/cm2/week

Add Material Requiring Parts Marking

- At the Component level, only the Details tab is shown (not Recyclate or Application)
- Select the add material button to add a material that requires Parts Marking data

The screenshot shows the MDS - MATERIAL DATA SYSTEM interface in Microsoft Internet Explorer. The browser title is 'MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE'. The user is logged in as 'Phipps, Kathy'. The main content area is titled 'Ingredients' and shows a tree view of components. The selected component is 'Component for 6.1... 900000431 / 0.01 (Node ID 900000431)'. Below the tree view, there are several buttons: a red minus button, a yellow plus button, and a green plus button. A yellow callout bubble points to the green plus button with the text 'Add Material'. The 'Details' tab is active, showing the following information:

Type	Component (MDS)
ID / Version	900000431 / 0.01
MDS Supplier	EDS (RMC Troy)
Description	Component for 6.1 Cre
Part/Item No.	KP-6978-r1
Measured Weight per Item	100 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	100 [g]
Deviation	0 [%]
Development Sample Report	<input type="checkbox"/>

A pink callout bubble contains the following text: 'Note that multiple tabs only appear when the material is selected (not when the top node is viewed). However, do not contact the supplier of the material MDS to add the application code – YOU must add the application when adding the material to the tree.'

Apply Material

MDS, Module and Substance search - extended - Microsoft Internet Explorer provided by EDS ...

MDS and Module Search Search

Search Criteria: Name=abs, own MDSs=Yes, own Modules=Yes
1 item found. Ordered ascending by "Name, >Symbol<"

No.	Name, >Symbol<	Trade name	Mat.-No.	ID / Version	Supplier
1	ABS, >ABS-GF5 P FR<	-	-	900000421 / 0...	EDS (RMC Tr...

Apply Preview Clipboard New Search Cancel

Select Apply

Note: if you select a material that does not have a whole number version, you will have to come back later and release it before you can release or send the component.

Answer Parts Marking Question

- Component is selected (top node)
- At this point, because we just added a material with a Polymer classification, we're being asked if we've physically marked the part

New question at top node

Ingredients
Component for 6.1... 900000431 / 0.01 (Node ID 900000431)

Search Edit MDS Ingredients

Component for 6.1 Create tips

- Material for Fasteners Property Class <=12.9 (Flat)
- ABS
 - ABS
 - GF-Fibre
 - Plasticizer, not to declare
 - Flame Retardant, not to declare

Details

Type Component (MDS)

ID / Ver 900000431 / 0.01

MDS Su EDS (RMC Troy)

Descript Component for 6.1 Cre

Part/Item kP-6978-r1

Measured weight per Item 100 g

Tolerance +/- 0 [%]

Calculated weight per Item 100 [g]

Deviation 0 [%]

Polymeric part(s) marked

- Yes (Parts marked as require...
- No (Parts not marked as req...
- Not Applicable (Parts do not r...

Development Sample Report

Tree search SearchResult Save Next

Note: If you click on the underlined link, you will get the complete explanation of what you should be doing. Note if you're unsure, you should have someone go out and look at a part that's ready to leave the plant and check to see if it is marked.

••• Polymeric Parts Marking Question

- This question will occur if the component has a material attached that falls under one of the following material classifications:
 - 5.1.a filled Thermoplastics
 - 5.1.b unfilled Thermoplastics
 - 5.2 Thermoplastic elastomers
 - 5.3 Elastomers / elastomeric compounds
 - 5.4 Duromers
 - 5.4.1 Polyurethane
 - 5.4.2 Unsaturated polyester
 - 5.4.3 Other duromers
 - 5.5.1 Plastics (in polymeric compounds)
 - 5.5.2 Textiles (in polymeric compounds)
- To answer this question you need:
 - Access to the drawing
 - Access to the part
- Did you mark your polymeric part(s) according to respective applicable ISO Standards (e.g. ISO 1043, ISO 1629, ISO 18064, ISO 11469)?
 - Yes (Parts are marked as required on drawing)
 - No (Parts are not marked as required)
 - Not applicable (Parts do not require marking due to specifications of weight, geometric restrictions or surface requirements)

Need More Recyclate Information?

- Details and Recyclate tabs are shown when the new material is selected
- Once again, you may have to answer the Recyclate question.

The screenshot displays the MDS - MATERIAL DATA SYSTEM interface in a Microsoft Internet Explorer browser. The page title is "MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE". The user is identified as "Phipps, Kathy - EDS (RMC Troy) [9763]". The main content area is titled "Ingredients" and shows a component for "6.1... 900000431 / 0.01 (Node ID 900000431)". The component is expanded to show "Material for Fasteners Property Class <=12.9 (Flat)" and "ABS". The "Recyclate" tab is active, showing the following details:

Type	Material (MDS)
ID / Version	900000421 / 0.01
MDS Supplier	EDS (RMC Troy)
Name	ABS (EN)
Trade name	(EN)
Internal Mat.-No.	
Std. Mat.-No.	
Symbol	ABS-GF5 P FR
Classification	filled Thermoplastics
Norms/Standards	ISO 1043
Inhouse Norms	
Supplier	
Remark	(EN)
Weight	0 g
Development Sample Report	No

Buttons at the bottom include "Replace", "Tree search", "SearchResult", "Save", and "Next".

Top Level View

- I had to increase the weight after adding the last material.
- The tab for Application ONLY appears when the material is attached to a component and the material is selected.
- The tab for Recyclate appears when the material is attached to a component or semi-component and the material is selected.
- “Attaching” is also called “Referencing”

Run Check

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Phipps, Kathy - EDS (RMC Troy) [9763]

MATERIAL DATA SYSTEM

Ingredients All data was saved

Component for 6.1... 900000431 / 0.01 (Node ID 900000431)

Search Edit MDS Ingredients

GADSL

Component for 6.1 Create tips

Material for Fasteners Property Class <=12.9 (Flat)

ABS

Details

Type Component (MDS)

ID / Version 900000431 / 0.01

MDS Supplier EDS (RMC Troy)

Description Component for 6.1 Cre

Part/Item No. KP-6978-r1

Measured Weight per Item 130 g

Tolerance +/- 0 [%]

Calculated Weight per Item 130 [g]

Deviation 0 [%]

[Polymeric part\(s\) marked](#)

Yes (Parts marked as require...)

No (Parts not marked as req...)

Not Applicable (Parts do not r...)

Development Sample Report

Tree search SearchResult Save Next

Run the Check

- I added the last material but forgot to give it a weight (highlighted error). That's easy to fix.
- The 1st **Error** is because of the 3rd **Error**
- However, the 2nd **Error** has to be fixed before proceeding. Highlight the 2nd **Error** and click on **Show**.

Check - Microsoft Internet Explorer provided by EDS COE

Check Results

Check Results

MDS: Component for 6.1 Create tips 900000431 / 0.01

Error: Component for 6.1 Create tips: The deviation between measured a
Error: ABS: The referenced datasheet is not internally released
Error: ABS: Weight needs to be higher than zero
Warning: ABS: More than 10% not specified substances. ("Not specified" :
Error: Component for 6.1 Create tips: Contact must be specified

Double-click to jump to the error.

Error: ABS: Weight needs to be higher than zero

All existing errors need to be eliminated before any further processing may take place.

Show Check Cancel

Releasing Referenced Datasheet

DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Ingredients
Component for 6.1... 900000431 / 0.01 (Node ID 900000431)

GADSL

Component for 6.1 Create tips

Material for Fasteners Property Class <=12.9 (Flat)

ABS

Details Recyclate

Type Material (MDS)

ID / Version 900000421 / 0.01

MDS Supplier EDS (RMC Troy)

Name ABS

Trade name

Internal Mat.-No.

Std. Mat.-No.

Symbol ABS-GF5 P FR

Classification filled Thermoplastics

Norms/Standards ISO 1043

Inhouse Norms

Supplier

Remark

Weight 30 g

Modify

If not released, there will be a **Modify** button

Version .01 meaning not Released

Added Weight

Releasing datasheet from the tree

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer pro

Phipps, Kathy - EDS (RMC Troy) [9763]

Ingredients
ABS 900000421 / 0.01 (Node ID 900000421)

GADSL

ABS

GF-Fibre

Plasticizer, not to declare

Flame Retardant, not to declare

Menu

Search

MDS

Ingredients

Recyclate

information

Supplier data

Recipient data

Log off

Details

Type Material (MDS)

ID / Version 900000421 / 0.01

MDS Supplier EDS (RMC Troy)

Name ABS (EN)

Trade name (EN)

Internal Mat.-No.

Std. Mat.-No.

Symbol ABS-GF5 P FR

Classification filled Thermoplastics

Norms/Standards ISO 1043

Inhouse Norms

Supplier

Remark (EN)

Development Report

Tree search

SearchResult

Save

Next

Modify leaves the MDS you are working on and goes directly to the one that isn't released.

Select Save



Material Released

- I've now Released the material
- Let's return to the main MDS (top node)

Recipient data
ABS 900000421 / 1 (Node ID 900000421)

MDS Status: Internally released

Nothing found to display.

No.	to comp	(Org.-Unit...Name	Internal Mat.-...	Drawing No.	Recip. Status
Nothing found to display.					

Buttons: Send, Propose, Internal, Publish, Back, Add recipient, SearchResult, Save

Version 1 (whole number) meaning now Released

Button to go back to where you were

This button **will not be available** after Release 7.0 unless the company/org unit AND the user ID have been authorized for publishing

Returned to Main MDS

- Now we've fixed the weight problem and released the material
- Running the check again shows an Error and a Warning

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Ingredients
Component for 6.1... 900000431 / 0.01 (Node ID 900000431)

Search Edit MDS Ingredients

GADSL

Component for 6.1 Create tips

Material for Fasteners Property Class <=12.9 (Flat)

ABS

Details

Type	Component (MDS)
ID / Version	900000431 / 0.01
MDS Supplier	EDS (RMC Troy)
Description	Component for 6.1 Create tips
Part/Item No.	KP-6978-r1
Measured Weight per Item	130 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	130 [g]
Deviation	0 [%]

Polymeric part(s) marked

Yes (Parts marked as require...)

No (Parts not marked as require...)

Not Applicable (Parts do not require...)

Check Results

MDS: Component for 6.1 Create tips 900000431 / 0.01

Warning: ABS: More than 10% not specified substances. ("Not specified"):

Error: Component for 6.1 Create tips: Contact must be specified

Need to fix the contact error

This warning is acceptable so we'll ignore it

All existing errors need to be eliminated before any further processing may take place.

Show Check Cancel

Tree search SearchResult Save Next

Supplier Data

- Contact is added on the Supplier Data page
- Select the Organization Unit if applicable
- Select the Contact Person
- **Save**
- Click on **Next**

The screenshot shows a web browser window titled "MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE". The browser address bar shows "Phipps, Kathy - EDS (RMC Troy) [9763]". The page title is "Supplier Data" and the breadcrumb trail is "MDS > Supplier data". The form is in "Edit mode" and contains the following fields:

Company:	EDS (RMC Troy)
DUNS Number:	-
5505 Corporate Dr. 48098 Troy, MI US (United States)	
Organisation unit:	Waterford Plant
DUNS Number:	
3578 Dixie Hwy 48039 Waterford, MI US (United States)	
Contact Person:	Smith, John
Telephone No.:	248-555-1212
Fax No.:	
E-mail:	kdhipps@mydomain.com
active:	Yes

At the bottom of the form, there are three buttons: "Back", "SearchResult", and "Save".

Internally Release Component

- The correction has been made and you can go directly to the **Recipient data** screen and **Internally Release**
- Note – although the system allows you to Release, Send, Propose, and Publish with Warnings, that does not mean it will meet your customer's requirements.

This button **will not be available** after Release 7.0 unless the company/org unit AND the user ID have been authorized for publishing

Click on **Internal** to release

The screenshot shows the MDS - MATERIAL DATA SYSTEM interface. The main window displays the 'Recipient data' screen with a table of data. A red speech bubble points to the 'Internal' button in the top right corner. A yellow speech bubble points to the 'Internal' button in the 'Check Results' dialog box. The dialog box shows a warning message: 'Warning: ABS: More than 10% not specified substances. ("Not specified": ...'. Below the warning, there are buttons for 'Show', 'Internal', and 'Cancel'.

Component Released

- Component is internally released
- Now go back to **Menu** and to **Create** another component.

Version number is changed

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided

Phipps, Kathy - EDS (RMC Troy) [9763]

Recipient data All data was saved
Component for 6.1... 900000431 / 1 (Node ID 900000431) Search Edit MDS Recipient data

MDS Status: Internally released Send Propose Internal Publish

Nothing found to display.

No. to comp. (Org.-Unit...	Description	Part/Item No.	Drawing No.	Recipient status
Nothing found to display.				

Back Add recipient SearchResult Save

Log off

A word about IMDS IDs and Node IDs – when there is only one version in the system, the IMDS ID and the Node ID are the same. The IMDS ID is used on the search screen to find the MDS and all of its versions. The Node ID is used by users who use an XML interface or IMDS-a2 to attach a specific ID and version to their trees directly without having to go through a search or the browser. These interfaces are at additional costs and are described on Public Pages > Services

This button **will not be available** after Release 7.0 unless the company/org unit AND the user ID have been authorized for publishing

••• New Component – Assembly

- This is going to be an assembly of existing components
- Enter the total weight
- Click on the “Add existing MDS” button
- When the screen comes up, search on own

The screenshot shows the 'Ingredients' form in the MDS - MATERIAL DATA SYSTEM. The form is titled 'Component_90000433 / 0.01 (Node ID 900000433)'. The 'Details' section contains the following information:

Type	Component (MDS)
ID / Version	900000433 / 0.01
MDS Supplier	EDS (RMC Troy)
Description	ent for 6.1 Create Tips
Part/Item No.	kp-3333-r1
Measured Weight per Item	150 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	0 [g]
Development Sample Report	<input type="checkbox"/>

Yellow callout bubbles highlight the 'Add existing MDS' button and the 'Measured Weight per Item' field.

“Add an existing MDS” is also known as **Referencing**

Attach/Reference First Component

- I've selected the component we just created
- Select **Apply**

MDS and Module Search

Search Criteria: own MDSs=Yes, own Modules=Yes
3 items found. Ordered ascending by "Article Name"

No.	Article Name	Part/Item No.	ID / Version	Supplier
1	Assembly component for 6.1 Create Tips	kp-3333-r1	900000433 / 0...	EDS (RMC Troy)
2	Component for 6.1 Create tips	KP-6978-r1	900000431 / 1	EDS (RMC Troy)
3	Simple Steel part with application codes	KP-694765-r1	900000390 / 0...	EDS (RMC Troy)

Buttons: Apply, Preview, Clipboard, New Search, Cancel

Assembly Updated and Added

- Doesn't look like there's much to do beyond indicating how many of these are in the assembly
- To add another component, you must click on the top of the tree.

The screenshot shows the MDS - MATERIAL DATA SYSTEM interface in Microsoft Internet Explorer. The browser title is "MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE". The page header includes "MATERIAL DATA SYSTEM". The main content area is titled "Ingredients" and shows a tree view for "Assembly - Release... 674468 / 0.01 (Node ID 674468)". The tree view shows a folder "GADSL" containing "Assembly - Release 5.0 Create Tips" and "Component for 5.0 Create Tips". The "Details" panel on the right shows the following information:

Type	Component (MDS)
ID / Version	674466 / 1
MDS Supplier	EDS USA Add Supplier
Description	Component for 5.0 Create Tips
Part/Item No.	kp-24680-r1
Measured Weight per Item	120 [g]
Tolerance	+/- 0 [%]
Calculated Weight per Item	120 [g]
Deviation	0 [%]

Below the details panel, there is a link for "Polymeric part(s) marked" and a text area with "Parts not marked as required." and a text input field containing "0" followed by "items". There is also a "Development Sample Report" field with the value "No". At the bottom of the page, there are buttons for "Tree search", "Save", and "Next".

Enter how many of these are going to be in the assembly

The system automatically does a Save because the component name is copied to the top of the tree on the left.

Prepare for Second Component

- We're going to be creating a plated component - to maintain tree structure according to Recommendation 001, we are going to have to create a place-holding component for the plating.
- Although Materials must be created separately, you can create a sub-component in the tree – it exists ONLY in the tree structure.
- Create a sub component “on the fly” by clicking on the “add component” button

Add Component button

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by ED

Phipps, Kathy - EDS (RMC Troy) [9763]

MATERIAL DATA SYSTEM

Ingredients
Assembly compone... 900000433 / 0.01 (Node ID 900000433)

Create MDS Ingredients
Recyclate information
Supplier data
Recipient data

Log off

GADSL

Assembly component for 6.1 Create Tips
Component for 6.1 Create tips

Details

Type	Component (MDS)
ID / Version	900000433 / 0.01
MDS Supplier	EDS (RMC Troy)
Description	Assembly component 1
Part/Item No.	kp-3333-r1
Measured Weight per Item	150 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	130 [g]
Deviation	-13.333333 [%]
Development	<input type="checkbox"/>
Sample Report	<input type="checkbox"/>

Tree search Save Next

❖❖❖ Add Second Component and Check

- Add a Description for this second component
- **Save**
- Click on the ✓ icon to run the Check

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Phipps, Kathy - EDS (RMC Troy) [9763]

MATERIAL DATA SYSTEM

Ingredients All data was saved
Assembly compone... 900000433 / 0.01 (Node ID 900000433) Create MDS Ingredients

Menu
Create
MDS
Ingredients
Recycle information
Supplier data
Recipient data
Log off

GADSL

Assembly component for 6.1 Create Tips
Component for 6.1 Create tips
Plating Component

Details

Type	Component
Description	Plating Component
Part/Item No.	
Measured Weight per Item	0 g
Tolerance	+/- 0 [%]
Calculated Weight per Item	0 [g]
Deviation	0 [%]
Quantity	0 Items

If an icon has a black dot in it, you can use **Search** and find it.

--> Module Tree search Save Next

Result of Check – Errors!!!

- Lots of errors!
- Forgot to put a quantity on the added component
- No basic substances beneath the component
- Forgot to put a weight on the component
- Go back and
 - Add component weight
 - Add quantity
 - Add published material

Check - Microsoft Internet Explorer provided by EDS COE

Check Results

MDS: Assembly component for 6.1 Create Tips 900000433 / 0.01

Check Results

- Error: Assembly component for 6.1 Create Tips: The deviation between m
- Warning: ABS: More than 10% not specified substances. ("Not specified" :
- Error: Plating Component: The quantity must be one item at least!
- Error: Plating Component: Non basic substances must be decomposed fu
- Error: Plating Component: The measured weight per item needs to be hig
- Error: Assembly component for 6.1 Create Tips: Contact must be specifie

Double-click to jump to the error.

All existing errors need to be eliminated before any further processing may take place.

Show Check Cancel

Fix, Check Again – Less Errors

Check - Microsoft Internet Explorer provided by EDS COE

Check Results

Check Results

MDS: Assembly component for 6.1 Create Tips 900000433 / 0.01

Error: Assembly component for 6.1 Create Tips: The deviation between measured and calculated weight per item exceeds the entered tolerance.
Warning: ABS: More than 10% not specified substances. ("Not specified")
Error: Plating Component: The deviation between measured and calculated weight per item exceeds the entered tolerance.
Error: + AS060 (hot-dip aluminium-silicium coated): Weight needs to be higher
Error: Assembly component for 6.1 Create Tips: Contact must be specified

Double-click to jump to the error.

Error: Assembly component for 6.1 Create Tips: The deviation between measured and calculated weight per item exceeds the entered tolerance.

All existing errors need to be eliminated before any further processing may take place.

Show Check Cancel

Microsoft Internet Explorer provided by EDS COE

Phipps, Kathy - EDS (RMC Troy) [9763]

MATERIAL DATA SYSTEM

Component... 900000433 / 0.01 (Node ID 900000433)

Create MDS Ingredients

GADSL

Assembly component for 6.1 Create Tips

Component for 6.1 Create tips

Plating Component

+AS060 (hot-dip aluminium-silicium coated)

- Lead
- Cadmium
- Aluminium (metal)
- Silicon

Details Recyclate Application

Type	Material (MDS)
ID / Version	839413 / 3
MDS Supplier	IMDS-Committee
Name	+ AS060 (hot-dip alu) (EN)
Trade name	(EN)
Internal Mat.-No.	
Std. Mat.-No.	
Symbol	+AS060
Classification	Aluminium and aluminium alloys
Norms/Standards	EN 10292 EN 10326
Inhouse Norms	
Supplier	
Remark	Standard Coating for hot-dip aluminium- (EN)
Weight	0 g
Development Sample Report	No

Replace Tree search Save Next

- Need to correct weight either by changing top component weight, tolerance or plating weight – I'm going to do plating weight
- Need to add weight of material

Verify Application Codes

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer provided by EDS COE

Ingredients
Assembly compone... 900000433 / 0.01 (Node ID 900000433)

Details Recycle Application

Component: Plating Component
Origin: own
Material: + AS060 (hot-dip aluminium-silicium coated)

Basic Substance	% (MAX)	Application
Lead	0.01	Concentration within ...
Cadmium	0.0010	Concentration within ...

2 items found.

Replace

Details Recycle Application

Component: Plating Component
Origin: own
Material: + AS060 (hot-dip aluminium-silicium coated)
Basic Substance: Lead
Portion: 0.01 % (MAX)
Application :

Alloying element in aluminium for machining purposes

Alloying element in bearing shells and bushes in engines, transmissions and air conditioning compressors.

Other application (potentially prohibited)

Alloying element in bearing shells and bushes for all other applications (potentially prohibited).

Concentration within acceptable GADSL limits

Back

Details Recycle Application

Component: Plating Component
Origin: own
Material: + AS060 (hot-dip aluminium-silicium coated)
Basic Substance: Cadmium
Portion: 0.0010 % (MAX)
Application :

Concentration within acceptable GADSL limits

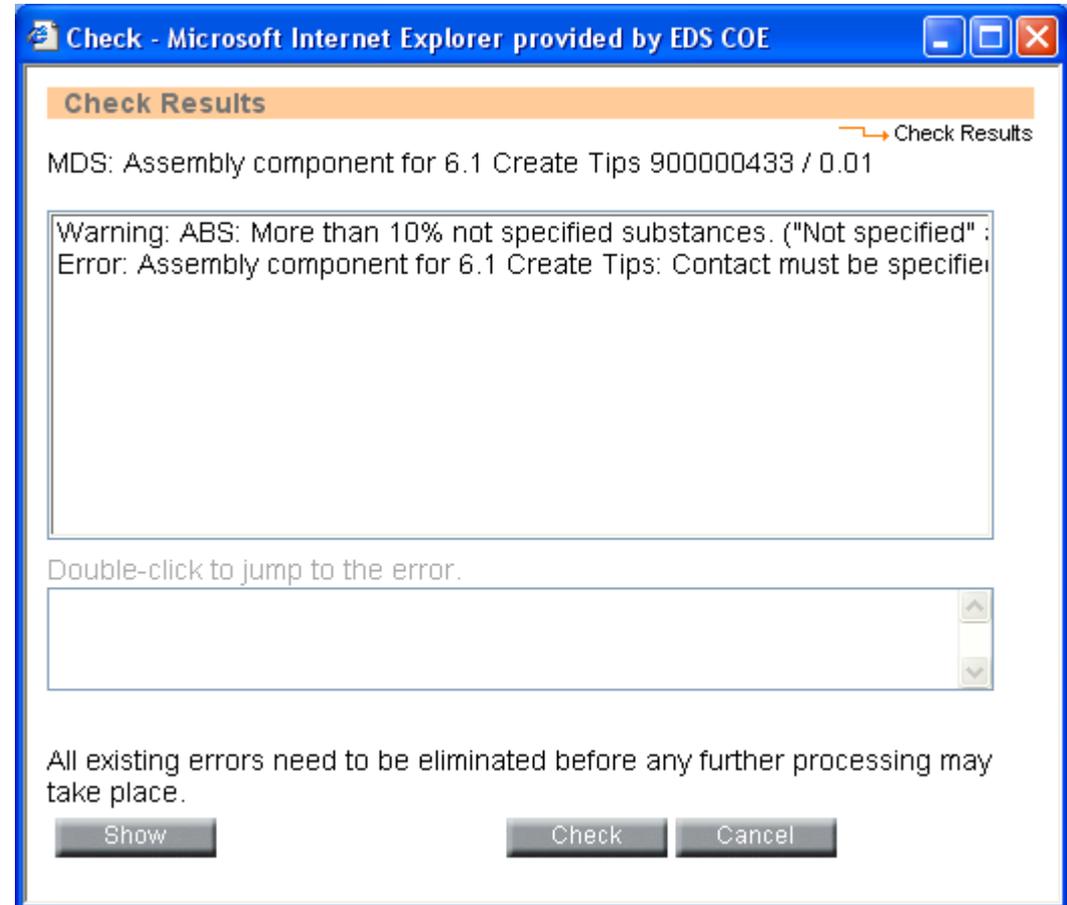
Other application (potentially prohibited)

Back

- The system has pre-selected application codes.
- Verify that these are appropriate or select the appropriate application code.

Final Corrections

- We know about the Warning.
- And from earlier, we know how to correct the contact **Error** (go to Supplier Data page).



••• Add Recipient Data

- **Nothing found to display** indicates a Recipient has not been added yet.
- The **Internal** and **Publish** buttons are the only options available until a Recipient is added
- Click on **Add Recipient** to find the recipient

Before recipient added
Send and **Propose**
buttons grayed out

Add Recipient button

This button **will not be available** after Release 7.0 unless the company/org unit AND the user ID have been authorized for publishing

MDS - MATERIAL DATA SYSTEM - Microsoft Internet Explorer

EDS (RMC Troy) [9763]

MATERIAL DATA SYSTEM

Recipient data

Assembly compone... 900000433 / 0.01 (Node ID 900000433)

Create → MDS → Recipient data

MDS Status: Edit mode

Send Propose Internal Publish

Nothing found to display.

No. to comp.	(Org.-Unit... Description	Part/Item No.	Drawing No.	Recipient	Status
Nothing found to display.					

Back Add recipient Save

Select the Recipient

- In this case, I'm selecting an ORG Unit of an example company - highlight and click **Apply**

Which one to select??? In this case the company I'm sending to has Organization Units. Theoretically, you should only have to send/propose to a company once because once accepted, it's available to all in the roof company.

You can list a Company Name only once on the recipient list.

For example, the system will not allow you to put both EDS North America and EDS (IMDS Boarding) as recipients.

If sending to an Org Unit, make sure that someone in the other company has access to MDSs sent to it. Make sure you have the correct recipient.

No.	Company Name	Org.-Unit	ID	zip code	City
21	EDS (Japan)	EDS (Japan)	281	-	-
22	EDS (IMDS Boarding)	EDS North America	15783	48098	Troy
23	EDS (IMDS Boarding)	EDS (IMDS Boarding)	7340	-	-
24	EDS (Core Team)	Umzuege	5676	65428	Rüsselsheim
25	EDS (Core Team)	Test	36325	65428	Rüsselsheim
26	EDS (Core Team)	SMC	53790	xxxxxx	Zaragossa
27	EDS (Core Team)	MDSMap	6121		Detroit
28	EDS (Core Team)	Ins Nachbargebäude	5678	65428	Rüsselsheim
29	EDS (Core Team)	Im Gebäude	5677	65428	Rüsselsheim
30	EDS (Core Team)	I.Solutions	5674	65428	Rüsselsheim

Enter Recipient Data

- The **Company Data** window appears
- Enter recipient specific information
 - Customer's part number
 - Description
 - Supplier code and
 - Any other customer requested information

If your customer rejects the MDS and says it is not their part number or you need to change the description, **you must change it here** as this is their view

Note: My selection appears here and the Org Unit is in ()

Supplier Code – Depends on how your customer refers to you – Some OEMs have special codes they assign, others use DUNS Numbers, others use nothing at all

I know, it looks like you can type here, but you can't

Please check the FAQ on Forwarding for information on this topic

When done, click **Change**

Internet Explorer

Recip. Sta. Code

Recipient: EDS (IMDS Boarding) (EDS North America)

Company- / Org.-ID: 15783

Part/Item No.: RC-8909-r1

Description: Assembly component for

Drawing No.:

Bill of Delivery No.:

Supplier Code:

Reason for denial:

Transmission/Check Date: not available

Forwarding allowed: Yes No

Change Cancel

Recipient Data Decoded

- This page contains your CUSTOMER'S information and status of MDS –
 - Part/Item No. – your customer's number (system required)
 - Description – how your customer commonly refers to the product (system required)
 - Drawing No. (system optional)
 - Drawing dated: (system optional)
 - Drawing Change Level (system optional)
 - Report no. – if you checked Development Sample Report, you should have an entry here (system optional)
 - Date of Report (system optional)
 - Purchase Order No. (system optional)
 - Bill of Delivery No. (system optional)
 - Supplier Code – how customer refers to you (commonly DUNS) (required)

Note: certain OEMs have a slightly different Data page. Different customers have different data requirements on this page – be sure to check with them on what needs to be supplied.

Company data - Microsoft Internet Explorer

Company data

Recip. Status: edit mode
Recipient: EDS (IMDS Branding) (EDS North America)
Company- / Org.-ID: 15783
Part/Item No.: RC-8909-r1
Description: Assembly component for
Drawing No.:
Drawing dated:
Drawing Change Level:
Report No.:
Date of Report: (MM/DD/YYYY)
Purchase Order No.:
Bill of Delivery No.:
Supplier Code:
Reason for denial:
Transmission/Check Date: not available
Forwarding allowed: Yes No

Change Cancel

Adding Semi-Component with a Component Sibling (new in 7.0)

- In this particular case, we have first added a component in the tree structure.
- When we go to add a semi-component, we get an IMDS message. Select OK.
- Add the name, and a component is added to the tree – thereby maintaining appropriate structure.

The screenshot shows the MDS web application interface. The main window displays the 'Ingredients' tree structure. A dialog box titled 'Add semicomponent' is open, showing a warning message: 'Placing **Semi-component Test adding semi-component** together with **Component Additional Assembly for complex example** under **Component Test adding semi-component with component** violates Recommendation 001. Please enter here the name of a new node to be placed in this datasheet to solve this problem or press Cancel to store unchanged.:'. The text input field contains 'added component'. A second screenshot shows the 'Ingredients' tree structure with a new node 'IMDS added component' highlighted in red.

Note: while this works if adding a semi-component after adding a component as a child, if you add the semi-component first, you will not get this option.



Adding a Semi-Component Created in Release 7.0 or Later

- Should a semi-component have a weight component defined, the system can now calculate the weight of the semi-component when added to a component

Ingredients
Component_90008... 900082091 / 0.01 (Node ID 900082091)

Details

Type	Semicomponent (MDS)
ID / Version	900082090 / 0.01
MDS Supplier	EDS (RMC Troy)
Article Name	SemiComponent_900082090
Item-/Material-No.	
Weight	0 g
Development	
Sample Report	No
Specific weight	15 g/m ³ for volume

Calculate

System calculated weight

Semicomponent (MDS)
900082090 / 0.01
EDS (RMC Troy)
SemiComponent_900082090

Weight	75 g
Development	
Sample Report	No
Specific weight	15 g/m ³ for volume

Enter how many of the specified unit and select **Calculate**

Recipient Changes

- Note the changes to the screen now that a Recipient has been added

More Buttons

Recipient data
Assembly compone... 900000433 / 0.01 (Node ID 900000433)

MDS Status: Edit mode

1 item found.

No. to comp.	(Org.-Unit...	Description	Part/Item No.	Drawing No.	Recipient	Status
1	EDS (IMDS Boarding...	Assembly component...	RC-8909-r1			edit

Back Add recipient

EDS (IMDS Boarding) (EDS North America) [15783]

Send Propose Internal Publish

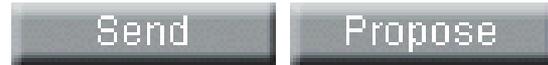
Mouse over the ... in the Recipient and you see exactly where you are sending it.

This button **will not be available** after Release 7.0 unless the company/org unit AND the user ID have been authorized for publishing

Recipient part number – this is what your customer will see – NOT the same as on the Ingredients page (your part number)

Send or Propose to Recipient?

- **Send** - you send this MDS **ONLY** to this customer – the version number will remain .0x until your customer accepts. It is in “handshake” mode and you can make edits anywhere (including the tree) until your customer accepts as long as you have control (e.g. the customer has rejected)
- **Propose** - you make this part for several customers under different customer part numbers – the version number will go to the next whole number immediately and you can only change the company data information should your customer reject it.



Part/Item No.	Drawin
AL-58679	

Send

- Click **Send**
- Check is successful – you can send with a warning – some of the newer Warnings, you cannot correct without making a copy/new version
- Click **Send** and **OK** on message.

Simply entering the MDS into IMDS does NOT satisfy the requirements, you must get it into your customer's hands – preferably by Sending or Proposing

MDS - MATERIAL DATA SYSTEM - M

Recipient data
Assembly compone... 900000433 / 0.01 (Node ID 50... Create Recipient data

MDS Status: Edit mode

Send Propose Internal Publish

1 item found.

No. to comp.	(Org.-Unit...	Description	Part/Item No.	Drawing No.	Recip. Status
1	EDS (IMDS Boarding...	Assembly component...	RC-8909-r1		edit mode

Back Add recipe EDS (IMDS Boarding) (EDS North America) [15783] Save

Check - Microsoft Internet Explorer provided by EDS COE

Check Results

MDS: Assembly component for 6.1 Create Tips 900000433 / 0.01

Warning: ABS: More than 10% not specified substances. ("Not specified":

Double-click to jump to the error.

Despite the existence of warning messages you may continue.

Show Send Cancel

Result of Send

- Send is a 1-to-1 relationship. If your customer wants changes on the tree and it is still in edit mode, you can make changes after the customer has rejected.
- If you **Propose**, the version increases to a whole number and you can not make changes - though you can add more recipients

MDS - MATERIAL DATA SYSTEM - Microsoft Internet

Recipient data

Assembly compone... 900000433 / 0.01 (Node ID 900000433)

MDS Status: Handshake

1 item found.

No. to comp. (Or	Unit...	Description	Part/Item No.	Drawing No.	Recip. Status
1	EDS (IMDS B...	Assembly component...	RC-8909-r1		not yet browsed

Buttons: Back, View, Delete, Save

Buttons: Send, Propose, Internal, Publish

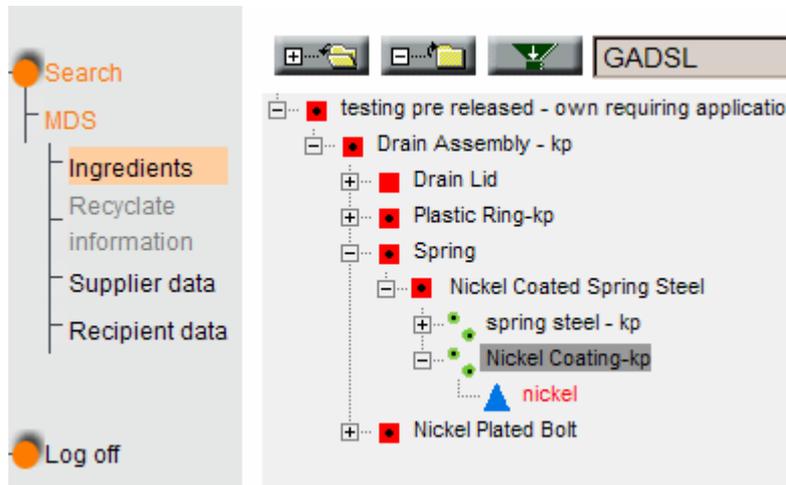
Callouts:

- Version hasn't changed
- Handshake Mode
- Status "not yet browsed"

If the status is **Edit Mode** or **Modified**, you must **resend** or **repropose**



Fixing Application ERROR – Own Company Created Component



In the above case, I would have to:

- Copy/new version of the **Nickel Coated Spring steel** to add the applications and then release.
- Copy/new version of the **Spring**, delete off old version of **Nickel Coated Spring Steel**, add new version and internally release.
- Copy/new version of **Drain Assembly – kp**, delete off old version of **Spring** and add new
- Delete off **Drain Assembly-kp** and add new version. Then I can send to customer.

1. Copy/new version of the MDS the material is directly attached to and add the application codes.
2. Internally release the MDS
3. If the MDS is attached to another component, you must:
 - a. Copy/new version of that component/semi-component
 - b. Delete off component above and add new component
 - c. Either internally release or send to customer
 - d. If this is attached to another component, repeat step 3 until you have an MDS to send to customer



Sending an Attached MDS Requiring Recyclate Information

- Whether sending to an OEM or sending to a supplier, you will get an **ERROR** when sending this MDS with an attached component that requires Recyclate information to be answered in 3.0.
- This **MUST** be corrected by creating a new version of the component or semi-component where the material is attached and working your way back up the tree.

Note: although this will generate a warning, because this is a released MDS and you do not own it, you do not see any options to select.

INTERNATIONAL
MATERIAL DATA
SYSTEM

 **Miscellaneous Topics**



❖❖❖ Semi-component ≠ Subcomponent

- Semi-components are basically created the same way as a component except they do not have application codes or parts marking questions to be answered. They are often misused. A Semi-component **IS NOT** the same as what is commonly referred to a subcomponent. If you use something in “one of”, “two of”, etc. you should be making components.
- Semi-components can be use for a bolt of cloth, a wire wrap that is cut down, vinyl tubing that is cut from a roll, paint, etc. - something that is used by weight, length, or volume during processing
- In IMDS, subcomponents = components

Adding Weight Characteristics to Semi-Components (new in 7.0)

- When creating a semi-component, you now have the option of adding a weight characteristic based on length, area, or volume – as well as the traditional value – none.
- Depending on the selection, the **Details** section will change to one of the following where a weight unit can be entered.

The screenshot shows the MATERIAL DATA SYSTEM web interface. The main window displays the 'Ingredients' section for a semi-component. The 'Details' section is highlighted, showing the following fields:

Field	Value
Type	Semicomponent (MDS)
ID / Version	900082090 / 0.01
MDS Supplier	EDS (RMC Troy)
Article Name	SemiComponent_9000
Item-/Material-No.	
Development	<input type="checkbox"/>
Sample Report	<input type="checkbox"/>
Specific weight	0 g/m ² for area

The 'Specific weight' field has a dropdown menu with options: none, length, area, and volume. The unit for each option is shown: g/m for length, g/m² for area, and g/m³ for volume.

••• In Conclusion - Ask Your Customer

- IMDS is a common system for data, but each OEM and many Tier 1's have their own acceptance criteria regarding:
 - Tree structure
 - Amount of miscellaneous material allowed
 - What goes on the company data screen
 - What has to be declared
- If a question arises, ask your customer what is required

Read the Public Pages

- Many questions can be answered from the Public Pages > **FAQs**.
- The FAQs are available to help you discover answers to common questions without the wait you may experience when calling the Service Center, who responds to thousands of users and for a question that can be answered by a FAQ, the Service Center will direct you to read the FAQ.
- Familiarize yourself with changes in the system. The login screen frequently has a message about a new release and a link to the release notes.

- Remember to view all of the presentations available in the Create Tips series:
 - Materials
 - Components
- Location:
 - IMDS Public Pages > FAQ
 - Select “How to Tips” from drop-down and Go
 - Select Where can I find a **walk through of creating an entry in IMDS?**