

CDX Compliance Data eXchange Create MDS

Agenda

Topic

What is an MDS

Create a Component/Material

Create a MDS - Add a Reference/Node

Setting Supplier Data

Assign Recipient Data

Background - Navigating CDX

The screenshot displays the DXC Technology MDS Search application interface. The top navigation bar includes a 'Main Menu' (with sub-items: MDS, Functions, Administration, System Admin, Help), a 'Toolbar' with various icons, a 'Change View' button, 'User / Company information', and a 'Logoff' button. The main content area is titled 'Parts of the MDS / RMD' and is divided into three sections: 'Search Criteria Area' (left), 'Supplier MDSs' (middle), and 'Own MDSs' (right). The 'Search Criteria Area' contains input fields for Name, Number, MDS ID, Node ID, and Attachment Type. The 'Supplier MDSs' section has radio buttons for 'none', 'accepted MDSs', 'Standard MDSs', and 'MDSs provided by customer'. The 'Own MDSs' section has checkboxes for 'own MDSs', 'last edited by me', and 'imported', along with dropdowns for 'Assigned Org Unit' and 'Assigned Contact'. Below these sections is a table with columns: Type, Name, Number, ID / Version, Node ID, Node Count, Supplier, Supplier Code, SCIP Number, and IMDS ID / Version. The table currently shows 'No data to display'. A 'Report Area' is located below the table. A 'Context Menu' is visible at the bottom right. A purple arrow points from the text 'Main Menu/Toolbar' to the top navigation bar. Another purple arrow points from the text 'Search Criteria' to the 'Search Criteria Area'. A third purple arrow points from the text 'Search results' to the table area. A blue callout bubble labeled 'Execute Search' points to a search button in the top right corner of the main content area.

Main Menu/Toolbar

Search Criteria

Search results

Report Area

Context Menu

Execute Search

Background - What is an MDS

An MDS contains information about the structure and the composition of a product

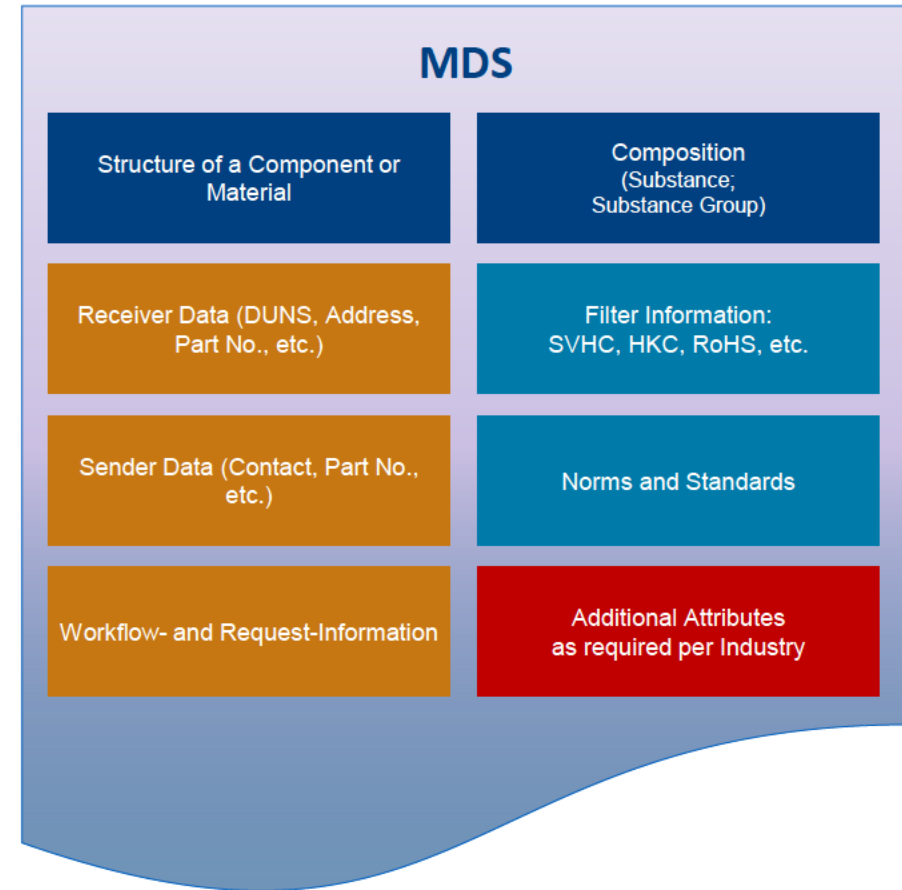
It may be assembled from other MDSs

It contains sender and recipient specific information

Provides capability to analyze based on different requirements

On request further attributes can be defined (e.g. recycling quota).

Each industry defines the rules how to use the MDS (e.g. part or full declaration).



MDS Types

MDS Type	Description	Can be attached to	Can have child nodes	Has weight field
Material 	Represents a homogeneous structure – meaning if you took a vertical slice through the product, you would not see layers (exception being electric/electronic components).	Materials, Semicomponents, Components	Material, Basic Substance	Yes
Semicomponent 	Similar to a Material, it represents a structure that will require further processing before it is assembled and given a final weight. Examples are a steel blank or a coated wire. Usage is by length, by volume, or by area.	Semicomponents, Components	Semicomponent, Material, Basic Substance, Process	Yes
Component 	Used to represent an assembly Component that has a defined weight and is used in whole number quantities. Examples would be an engine block, a seat, etc. The weight of a Component MDS is defined at creation and cannot be reduced in the structure.	Components	Component, Semicomponent, Material, Basic Substance, Process	Yes

Create a Component

You can either use the MDS > New > **Component** or the  button in the toolbar to create a **Component**



The screenshot shows the MDS application interface. The 'New Component' form is open, displaying the following sections:

- Component Search:** Filter set to 'Common Regulations'. A list of components is shown, with 'Component_12962183' selected.
- Details:** A list of component types: Component, Semicomponent, Material, Basic Substance, MDS Request, and SDoC. 'Component' is selected.
- Supplier data:** Fields for MDS Supplier (CDX Service Team (Germany)), 100% declaration, SCIP Compliance, External SCIP number, Brand, Type, and Model.
- Article Category:**
 - Name(s):** Name field contains 'Component_12962183'. Additional Names field is empty.
 - Identifier(s):** Part/Item No. field contains 'Choose File'. No file chosen. Additional Identifiers section is empty.
- Dates:** Empty.
- Query Lists:** Empty.
- Product Business Info:** Empty.
- Amounts and Weights:** Empty.

The screenshot shows the MDS application interface. The 'New' menu is open, displaying the following options:

- New
- Save
- Save as
- Print / Save as PDF
- Import
- Export
- Check
- Release internally
- Accept
- Reject
- Forward
- Delete
- Deactivate
- Log off

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Provide mandatory fields:

- Product Name*
- Part Number*
- Amounts and Weights

Create a Component – One Level Declaration

Execute Check

Regulation Field

Check Results

No.	Type	Tab	Node / Recipient	Message
1	Information	Ingredients	Component_12962176	The measured weight per item needs to be greater than zero.
2	Error	Ingredients	Component_12962176	Replace the default name of this datasheet with a meaningful name.
3	Information	Ingredients	Component_12962176	The one level declaration should have at least one attachment

Regulations Confirmation:

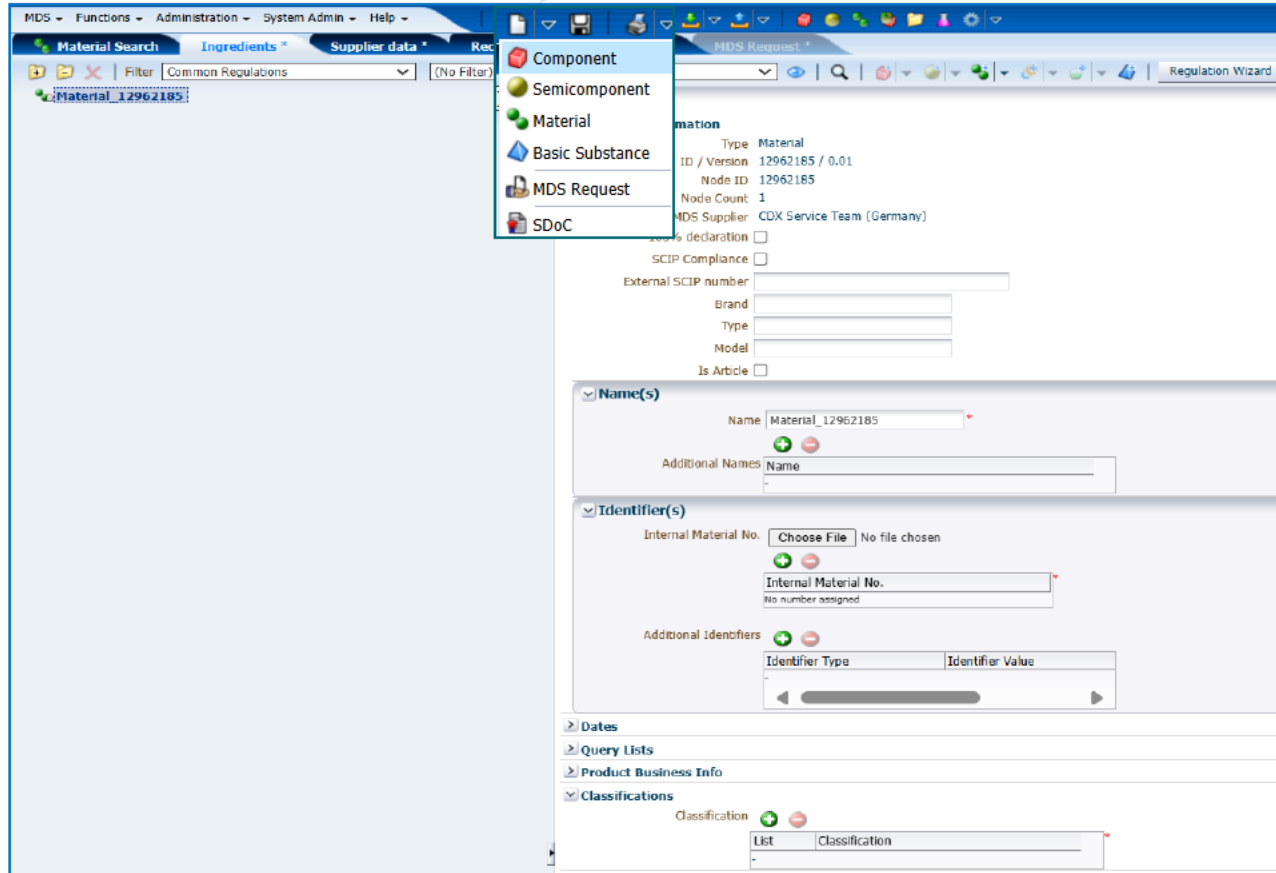
This field is only available for **Component** and **Semicomponent** MDSs and gives for every single Component or Semicomponent node an overview about all ingredients in the tree, which are included in the specified regulation (REACH, RoHS, ELV, Batteries, Packaging ...) – defined in your company administration information or by the client required regulations, respectively as defined in clients' requests. Note that regulations details are only shown for regulations such as "in scope".

Execute Check to see the Check Results – Errors/Information for a One Level Declaration

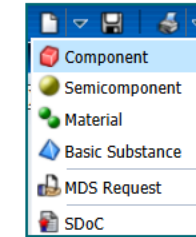
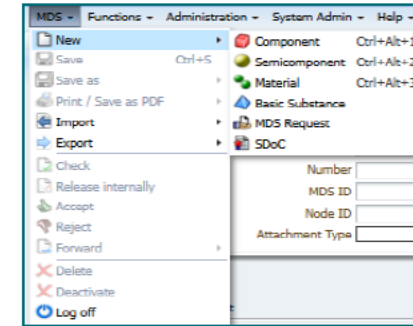
Create a Material

You can either use the MDS > New > **Material** or the  button in the toolbar to create a **Material**

New Material



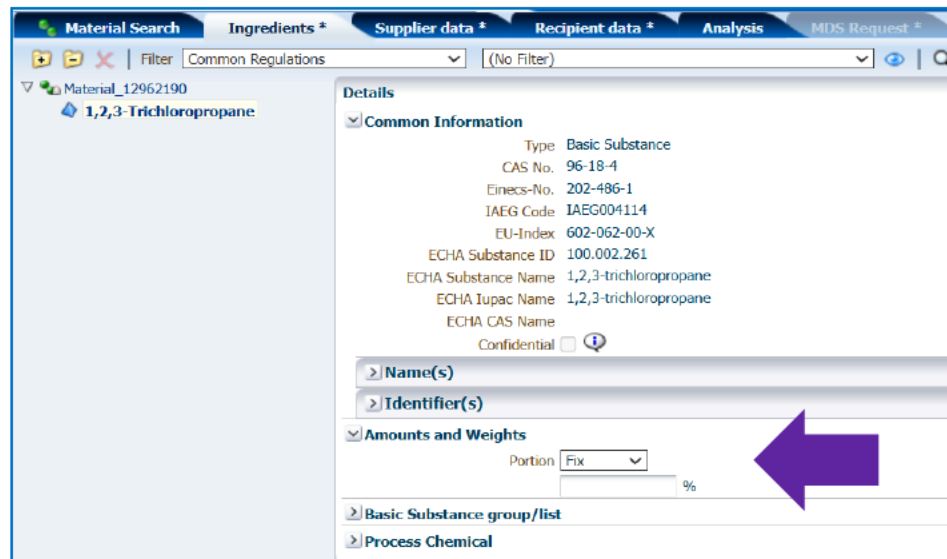
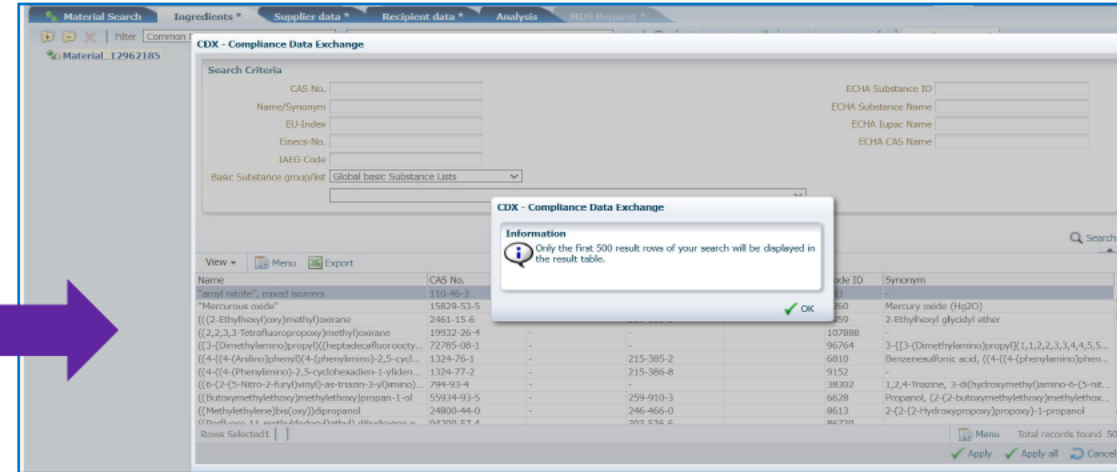
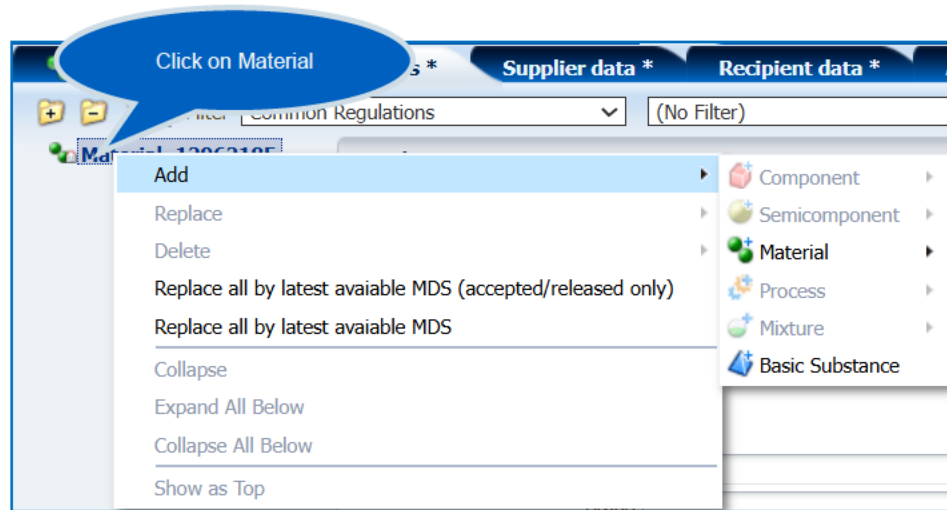
A **Material** is the lowest level of MDS a user can create.



Provide mandatory fields*:

- Material Name
- Material Number
- Material Classification

Create a Material – add Basic Substance

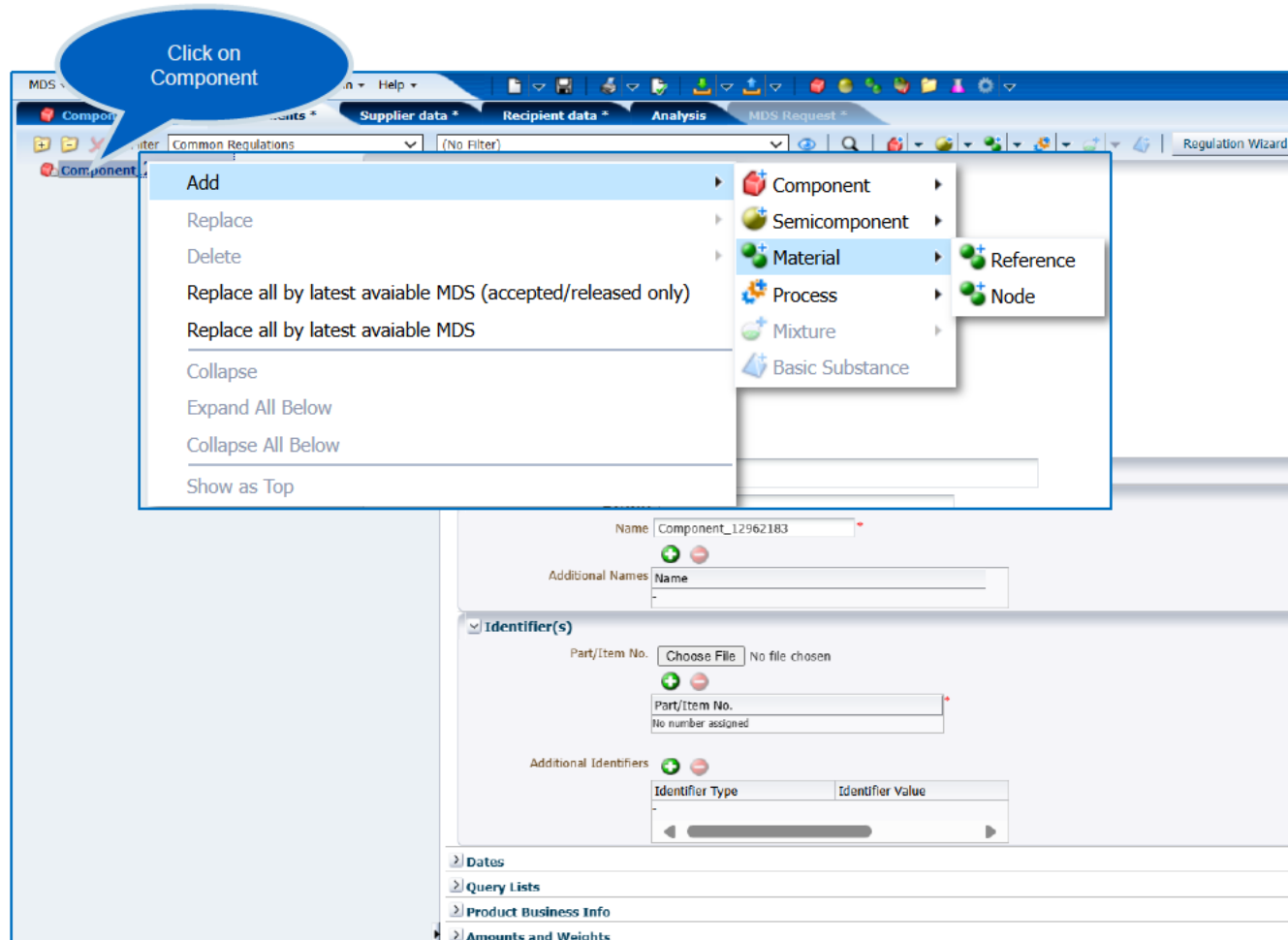


You can limit your search with several criterias, e.g., searching only for **Basic Substances** included in a specific Basic Substance Group or list. Here you can choose, if you want to search in a “Global Substance List” or a “Company Specific Substance List”. When you find your Basic Substance, highlight it and click on



You are required to enter a “Fixed” amount, a “Range” (from – to) for the used substance or letting the system calculate the % (Rest).

Create a MDS - add a Material Reference or a Material Node



Add a **Material** to a **Component**:
There are two ways to add a Material – **Reference** and **Node**. For all datasheets that you want to add, Reference and Node work the same. Reference means you are going to search out an MDS to attach. Node means you are going to create it in the tree and the structure only exists in the tree and cannot be used in other MDSs.

Attaching Material References or Nodes

CDX - Compliance Data Exchange

Identifier » **Norm, Symbol, Classification**

Name, ID » **Name, Int. Mat. No., ID**

Name, Int. Mat. No., ID

Name

Int. Mat. No.

MDS ID

Node ID

Attachment

Norm

Symbol

Classification

Supplier MDSs

☐ none ☐ accepted MDSs ☒ Standard MDSs

Supplier

CDX Standard Materials (---)

Dupont Standard Materials (---)

Compa

104

39146

Own MDSs

☐ own MDSs

☐ last edited by me

☐ imported

Assigned Org Unit

Assigned Contact

Search

Type	Name	Symbol	Standard Material No.	Internal Material No.	ID / Version	Node ID	Node Count	Supplier
	(Ba/Sr)O-nFe2O3 (Magnetically	-	-	-	32719 / 1	32719	4	CDX Standard Materials
	(PA66+PA6)-I Colour Masterbat (PA66+PA6)-I	-	-	-	89528 / 1	89528	4	Dupont Standard Materials
	(S)-Ni99,2	-	2.4066	-	16416 / 2	51106	11	CDX Standard Materials
	(S)-NiCu30Fe	-	2.4360	-	16429 / 3	42724	11	CDX Standard Materials
	+ AS040 (hot-dip aluminum-sili-	-	-	-	33561 / 4	62992	6	CDX Standard Materials
	+ AS060 (hot-dip aluminum-sili-	-	-	-	31970 / 3	62981	5	CDX Standard Materials
	+ AS100 (hot-dip aluminum-sili-	-	-	-	31972 / 3	62983	5	CDX Standard Materials
	+ AS120 (hot-dip aluminum-sili-	-	-	-	31973 / 3	62984	5	CDX Standard Materials
	+ AS150 (hot-dip aluminum-sili-	-	-	-	31974 / 3	62985	5	CDX Standard Materials

View Menu Export

Menu Total MDS found: 500

Apply Apply all Cancel

Component

Semicomponent

Material

Process

Mixture

Basic Substance

Reference

Node

Add Material > **Reference**:

- Search for a Standard MDS
- Click on **Apply**
- Standard Materials are always FMD (100%)

Component Search Ingredients *

Filter Common Regulations

Component_12962352

100Cr2

0.9 - 1.05% Carbon

0.4 - 0.6% Chromium

0.0 - 0.3% Copper

0.25 - 0.45% Manganese

0.0 - 0.3% Nickel

0.0 - 0.03% Phosphorus

0.0 - 0.025% Sulphur

0.15 - 0.35% Silicon

Rest 97.5975% Iron

Add Material > **Node**:

- Please go back to the slide "Create a Material"

Component Search Ingredients *

Filter Common Regulations

Component_12962355

Material_12962356

Create a Component – Partial or Full Material Declaration

The screenshot shows the MDS Search application interface. On the left, a tree view lists components and their ingredients. The main pane displays the 'Details' for a component, including 'Common Information' and 'Article Category'. A purple arrow points to the '100% declaration' checkbox, which is unchecked, with the text 'No Flag = Partial Declaration'. Below the details, a 'Check results' table shows 0 errors and 7 information messages. A blue speech bubble with 'Execute Check' points to the 'Check results' table.

Check Results

No.	Type	Tab	Node / Recipient	Information
1	Ingredients	1.0g Material REACH Annex VII, 6-Nitrochrysen	Under PRODI: REACH Annex XVII Substance 1,2-Dichloroethane 107-06-2 is not allowed to be used at more than a limit of 0%. Please verify.	
2	Ingredients	1.0g Material REACH Annex VII, 6-Nitrochrysen	Under PRODI: REACH Annex XVII Substance Cadmium Molybdenum Tetroxide 13972-68-4 is not allowed to be used at more than a limit of 0%. Please verify.	
3	Ingredients	1.0g Material REACH Annex VII, 6-Nitrochrysen	Under PRODI: REACH Annex XVII Substance Cadmium Molybdenum Tetroxide 13972-68-4 must be exempted if used at more than a limit of 0.01%. Please verify continued use.	
4	Ingredients	1g Material REACH SVHC, Bleisäure	Under PRODI: REACH Annex XVII Substance Lead 13424-46-9 is not allowed to be used at more than a limit of 0%. Please verify.	
5	Ingredients	1g Material REACH SVHC, Bleisäure	Under PRODI: REACH Annex XVII Substance Lead 13424-46-9 is not allowed to be used at more than a limit of 0%. Please verify.	
6	Ingredients	1g Material REACH SVHC, Bleisäure	Under PRODI: REACH Annex XVII Substance Lead 13424-46-9 is not allowed to be used at more than a limit of 0.05%. Please verify.	
7	Ingredients	1.0g Material REACH Annex VII, 2-Methylazetat	Under PRODI: REACH Annex XVII Substance 2-Methoxyethyl acetate 110-49-6 is not allowed to be used at more than a limit of 0%. Please verify.	

Execute Check

The screenshot shows the MDS Search application interface. On the left, a tree view lists components and their ingredients. The main pane displays the 'Details' for a component, including 'Common Information' and 'Article Category'. A purple arrow points to the '100% declaration' checkbox, which is checked, with the text 'Flag = Full Material Declaration'. Below the details, a 'Check results' table shows 4 errors and 7 information messages. A blue speech bubble with 'Execute Check' points to the 'Check results' table.

Check Results

No.	Type	Tab	Node / Recipient	Information
1	Ingredients	1.0g Material REACH Annex VII, 6-Nitrochrysen	Sum of fixed values and range values too small	
2	Ingredients	1.0g Material REACH Annex VII, 6-Nitrochrysen	Under PRODI: REACH Annex XVII Substance 1,2-Dichloroethane 107-06-2 is not allowed to be used at more than a limit of 0%. Please verify.	
3	Ingredients	1.0g Material REACH Annex VII, 6-Nitrochrysen	Under PRODI: REACH Annex XVII Substance Cadmium Molybdenum Tetroxide 13972-68-4 is not allowed to be used at more than a limit of 0%. Please verify.	
4	Ingredients	1.0g Material REACH Annex VII, 6-Nitrochrysen	Under PRODI: REACH Annex XVII Substance Cadmium Molybdenum Tetroxide 13972-68-4 must be exempted if used at more than a limit of 0.01%. Please verify continued use.	
5	Ingredients	1g Material REACH SVHC, Bleisäure	Sum of fixed values and range values too small	
6	Ingredients	1g Material REACH SVHC, Bleisäure	Under PRODI: REACH Annex XVII Substance Lead 13424-46-9 is not allowed to be used at more than a limit of 0%. Please verify.	
7	Ingredients	1g Material REACH SVHC, Bleisäure	Under PRODI: REACH Annex XVII Substance Lead 13424-46-9 is not allowed to be used at more than a limit of 0.05%. Please verify.	
8	Ingredients	1g Material REACH SVHC, Bleisäure	Under PRODI: REACH Annex XVII Substance Mercury 7439-97-6 is not allowed to be used at more than a limit of 0.01%. Please verify.	

Execute Check

Execute Check to see the Check Results – no Errors and only Information for MDS as Partial Material Declaration => you can send the MDS.

Execute Check to see the Check Results – Errors/Information for the same MDS as Full Material Declaration: Sum of fixed values and range values too small => before sending the MDS you must correct the Errors.

Check against Common Regulations

The screenshot displays the DXC MDS Search interface. The left pane shows a tree view of components under 'Demo Component_2025'. The right pane shows the 'Details' view for 'Scope: own company'. The bottom left pane shows the 'Confirmation' table.

1. Scope: own company

2. Scope: Recipients

3. Confirmation

Regulation	Regulation complied?	Relevant data provided?
AD-DSL	Please select appropriate value	Please select appropriate value
PROD: REACH An...	Please select appropriate value	Please select appropriate value
PROD: REACH An...	Please select appropriate value	Please select appropriate value
PROD: REACH Ca...	Please select appropriate value	Please select appropriate value
PROD: RoHS	Please select appropriate value	Please select appropriate value

4. Details

Name	CAS No.	Date	D/P	Limit value / Restrict	Threshold	Entry	Max. Portion	Weight	Material	Exemption	Company	Regulation Version	Valid From	Valid To
1,2-Dichloroet...	107-06-2		D		0%		0.1 %	0.001	1.0g Materia...		Common	4	02/14/2...	07/29/2...

5. Details

Name	CAS No.	Date	D/P	Limit value / Restrict	Threshold	Entry	Max. Portion	Weight	Material	Exemption	Company	Regulation Version	Valid From	Valid To
1,2-Dichloroet...	107-06-2	11/22/2017	P		0.1%	14 Augu...	0.1 %	0.001	1.0g Materia...		Common	4	02/14/2...	07/29/2...

- Several compliance schemes are reflected in the detail view Scope: own company (1)
- REACH relevant substances are listed, including all information relevant to identify against the EU register.
- Regulatory information is provided, including Entrance Date and Thresholds / Restrictions (2)
- RoHS is covered the same
- Listing references to RoHS relevant parts (3) and their RoHS compliance information (4)
- Including the option to set exemptions at the product level (5)
- Finally confirm that you are compliant against the requested regulations (6)

Create MDS- Setting Supplier Data

The screenshot shows the 'Supplier data' tab in the MDS Search application. The interface includes a header bar with tabs for 'MDS Search', 'Ingredients', 'Supplier data', and 'Recipient data'. Below the header, a breadcrumb trail shows 'Name Demo Component_2025 ID / Version 12270501 / 0.01 Node ID 12270501 SH Edit mode'. The main content area is divided into several sections: 'Company' (with fields for Company Name, ID, DUNS Number, IMDS Company ID, and Address), 'Organisation unit' (with a dropdown menu and a table for 'Organization units' and 'SCIP Number'), 'Entities Selling Product' (with a table and a checkbox for 'Add all organization units'), 'Target Market Countries' (with a table for 'Country Name'), 'Target Market Regions' (with a table for 'Region Name'), and 'MDS Contact' (with a dropdown menu and fields for E-mail, Telephone No., and Fax No.). Callouts are present: 'Supplier Data Screen' points to the top of the form; 'Choose Org Unit' points to the 'Organisation unit' dropdown; 'If you want to create SCIP Simplified Notification select your Legal Entities' points to the 'Entities Selling Product' table; 'Choose Customer Contact' points to the 'MDS Contact' dropdown; and another 'Supplier Data Screen' callout is located to the right of the form.

Supplier Data Screen

Choose Org Unit

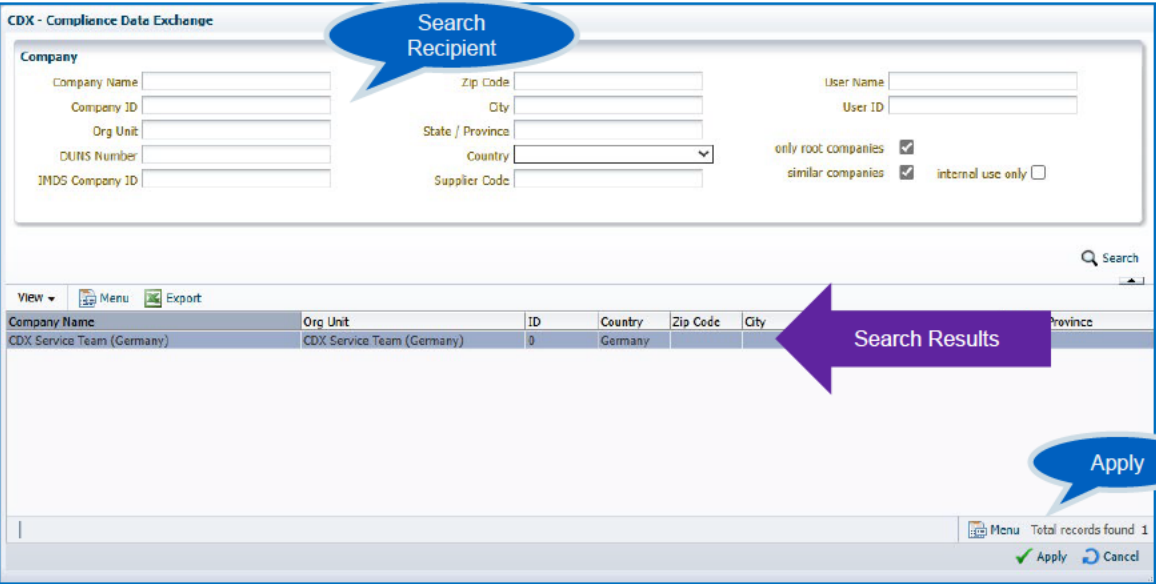
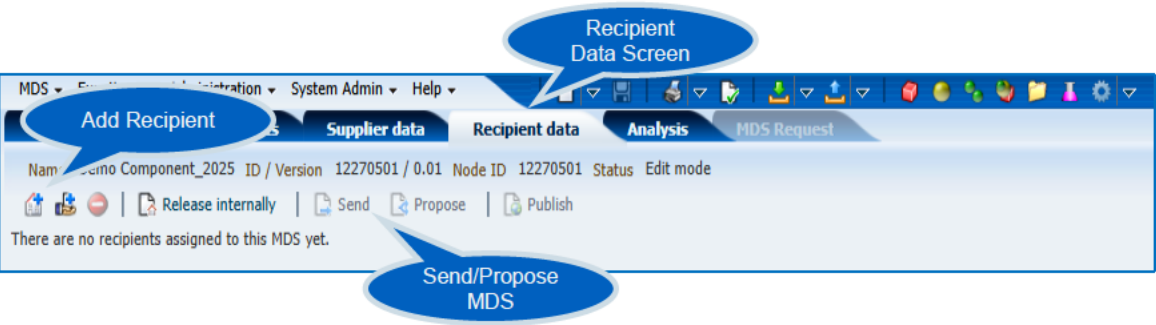
If you want to create SCIP Simplified Notification select your Legal Entities

Choose Customer Contact

Supplier Data Screen

Supplier Data Screen: Regardless of which type of MDS you are going to send, all have the Supplier Data Screen. This screen gives your customer information regarding the contact outside of CDX should there be questions about the entry. Since every MDS must have a contact, the default is the first contact assigned to your company.

Create MDS – Assign Recipient



Recipient Data Screen:
When you click on the Add Recipient  button, a search will begin so you can find your CDX Recipient.

After finding your recipient, you click on the  button and the recipient will be added.

Finally, you're going to send or propose this MDS.

	Release Internally	This button starts the Release process. When an MDS is released, no changes can be made to the Ingredients or Supplier Data page.
	Send	If the MDS has not been released internally and there is only one recipient, this button will not be greyed out and begins the send process. If Send is used, changes can only be made in Recipient Data screen.
	Propose	If there is at least one recipient in the Recipient list that has not received the MDS, this button will not be greyed out. This button initiates the proposed activity which includes internally releasing the MDS so no more changes can be made except to add Recipients.

AGUES **D**ELIVERING EXCELLENCE FOR OUR C
RING **E**XCELLENCE FOR OUR CUSTOMERS AN
R OUR **C**USTOMERS AND COLLEAGUES DELIV