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Iveco Group

IMDS Reporting Guide

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1 INTRODUCTION

1.1 OVERVIEW

The International Material Data System (IMDS) is a crucial element to comply with global chemical regulations, including the requirements of the European Union End-of-Life Vehicles (EU ELV) Directive (2000/53/EC) and REACH Directive (1907/2006/EC).

The complete list of the regulations on prohibited or restricted substances relevant to Iveco Group products is reported in the Standard IVG 10-0802 "*Regulations concerning prohibited or restricted substances relevant for IVG products.*"

This guide identifies Iveco minimum reporting requirements and provides detailed instructions to complete the Material Data Sheets (MDS) in IMDS. An MDS is required for all production materials, parts, components, and vehicle sub-systems (inclusive of service parts) provided to, or manufactured by, Iveco Group, its subsidiaries, suppliers, and sub-suppliers for global use/sale.

Suppliers must provide evidence that material substance composition reporting has been completed for all parts, and the submitted data complies with Iveco Group specific requirements. MDSs submitted must be reviewed and accepted by Iveco T&D Circular Economy and Material Compliance Team to consider them valid.

1.2 RESPONSIBILITY

Tier-1 suppliers are required to report chemical composition information for all parts supplied to Iveco Group. Suppliers are responsible for self-certifying the MDSs data, which will be used to demonstrate legal compliance. Tier-1 suppliers are obligated to engage sub-suppliers for the required MDS data. If a sub-supplier does not enter MDS data, the Tier-1 supplier must report this data.

The Product Engineering department and suppliers should focus on current and upcoming restrictions or prohibitions on substances of concern (SoCs), as well as applicable global regulations, starting from the component/product development phase.

1.3 TECHNICAL SUPPORT

For issues related to IMDS data entry, to support your company by e-mail, web meeting or with training sessions, please contact:

regulated-substances@ivecogroup.com

For questions regarding the registration of your company, login, or other issue related to the system please contact your Client Manager or the IMDS Service Center at:

<https://public.mdsystem.com/en/web/imds-public-pages/imds-service-centers>

1.4 IVECO GROUP IMDS REQUIREMENTS

The MDS of the parts can be sent only if there is an active purchase order of the parts.

This section provides Iveco Group specific IMDS reporting requirements. It is intended as a supplement to the IMDS Information Page and the requirements set forth in the Interfunctional Guideline "*IVG.IFG030 Iveco Group advanced product quality planning and part qualification process.*"

IMDS data should be submitted at the earliest possible time from creation of the purchase order with the component part number to complete the Production Part Approval Process (PPAP). When submitting IMDS data for PPAP approval, please allow sufficient processing time for data review and internal database updates.

For service only, service unique and spare parts not common to production part numbers, IMDS data must be submitted prior to PPAP or first shipment, if component represents a sub-component of a production assembly.

Iveco Group reserves the right to require a chemical analysis of the part, if an IMDS submission is not received prior to PPAP and/or the assigned due date. The supplier is responsible for bearing the cost.

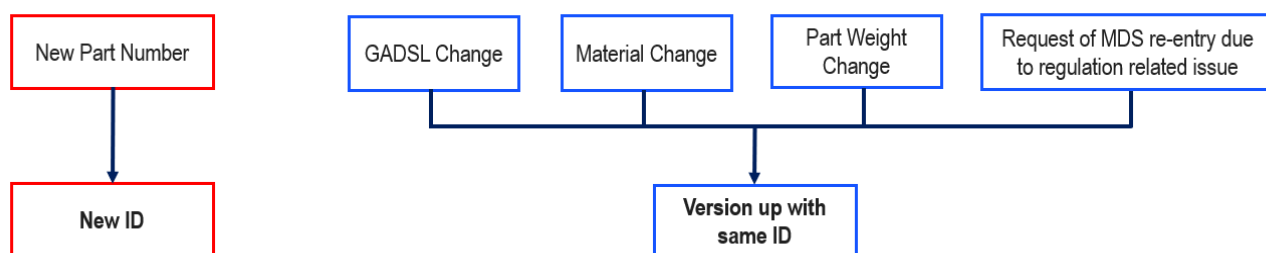
Iveco Group requires suppliers to utilize IMDS to report material and substance information for:

1. Parts or materials used in current production: all parts currently in production should already be reported in IMDS.
2. New product submissions (PPAP): Iveco Group suppliers are required to submit IMDS data for all new parts to meet their PPAP requirements.
3. Engineering Changes: Iveco Group suppliers are required to update and resubmit IMDS data for any engineering change that involves:
 - a. Part number.
 - b. Chemical Composition
 - c. Mass of a part exceeding the 5% tolerance
 - d. New Supplier of sub-component
 - e. Structural change in the bill of materials (BoM)
 - f. Global Automotive Substance Declarable List (GADSL):
 - I. A new GADSL substance is added to a material; and/or
 - II. IMDS data that has joker/wildcard/confidential substances in the tree structure. The IMDS data must be reviewed to determine if the substance replaced is declarable "D", declarable / prohibited "D/P", or prohibited "P"

All substances defined in GADSL as declarable or prohibited, and/or known to be declarable or prohibited within a national market, must be disclosed in IMDS and cannot be marked as confidential. Additionally, all GADSL identified substances must be reported using the correct CAS number (exclusion for specific substances which are not identified by CAS). If a CAS number is not available on IMDS, please contact the IMDS Help Desk.

4. Service parts: Iveco Group suppliers must submit IMDS data also for service parts

Parts exempted from requirements outlined in 1-4 include: user manuals (e.g. handbooks for radios, navigation systems, workshop equipment, etc.), protective packaging materials that are removed when the vehicle is delivered. All other products meeting the criteria outlined in 1-4, must be reported.



New part numbers require the creation of a new MDS and ID (red box outline), updated MDSs require new version, using the same ID (blue box outline).

Please use only one IMDS ID for each Iveco Group part number. If you wish to send another MDS for the same Iveco Group part number, please generate a new version of the same MDS ID.

Similarly, if an MDS is rejected, corrections should be made in the newer version of the same MDS ID.

If you wish to send many of the same or similar components with different Iveco part numbers, please use the multiple part number function (additional details on chapter 3.4 "Multiple Part Numbers Submission" at page 19).

1.5 COMPANY ID

IMDS data should be submitted to the correct Company ID (outlined in the table below). IMDS data reported to Iveco Group should be regarded as confidential.

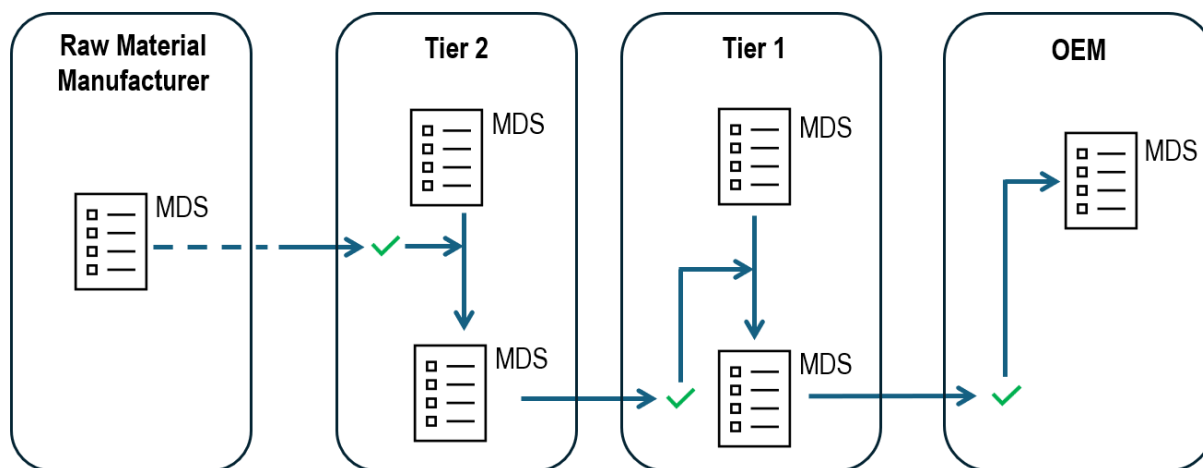
Company Name	Iveco plant	Company ID
IVECO Light (Daily)	Suzzara (IT), Valladolid (ES), Sete Lagoas (BR)	4772
IVECO Medium-Heavy BUS	Brescia (IT), Annonay (FR), Rorthais (FR), Madrid (ES), Ulm (DE), Cordoba (AR), Vysoke Myto (CZ)	117524
FPT	Torino Driveline (IT), Torino Motori (IT), Bourbon-Lancy (FR), Foggia (IT), Chongqing (CN), Sete Lagoas (BR), Cordoba (AR)	184104

Note: it is recommended to discontinue the use of the organization unit CNH Industrial Ag/Ce (ID: 158172) and adopt the above-mentioned references instead.

2. CHECK POINT BEFORE CREATING MDS

2.1 BACKGROUNDS OF IMDS (INTERNATIONAL MATERIAL DATA SYSTEM)

IMDS is developed and operated by DXC technology on behalf of automobile manufacturers to ensure compliance with global chemical regulations. It tracks and secures chemical substances and weight information for automotive parts throughout the supply chain.



2.2 IMDS COMPANY REGISTRATION

If your company accesses IMDS for the first time, please register your company at the following link:

<http://mdsystem.com> → New at IMDS? → 'Company Registration' → follow registration procedure → 'Online Registration'

It is strongly recommended that the person who is registering the company be the initial Company Administrator as the system will e-mail the registration information, including a link to the ID, to the Company Administrator. Please note that user IDs are assigned to individuals and not to companies.

2.3 HOW TO ACCESS FOR THE FIRST TIME IN IMDS

For the first time access to IMDS proceed with the next steps:

- 1) Login: Go to the login page and press on the "Login" button. Type in your username (IMDS User ID), press "Sign In". Then type in your password, press "Sign in".
- 2) Set up an authenticator app: you will be prompted to set up your Multi-Factor Authenticator (MFA). Choose your preferred application proceed for installation:
 - Microsoft Authenticator (mobile application),
 - Google Authenticator (mobile application),
 - Free OTP (mobile application),
 - Microsoft Authenticator (browser extension)
- 3) After the installation submit the One-time passcode.

The extended version of the Setup guide is available at the following link:

<https://public.mdsystem.com/documents/d/imds-public-pages/mfa-setup-guide>

2.4 HOW TO RESET MULTI-FACTOR AUTHENTICATION

IMDS strongly recommends having at least two Company Administrators, in order to avoid access issues in case of phone replacement or loss.

If two or more Company Administrators are registered, and one administrator changes or loses his phone, another administrator can reset the MFA internally. The administrator with access logs into IMDS, navigates to *Administration* → *User*, searches and selects the affected user, and performs an MFA reset. After the reset, the user can log in again and register the new phone by scanning the QR code displayed at login.

If there is only one Company Administrator, and that person changes or loses his phone, the MFA cannot be reset internally because access to IMDS is no longer possible. In this case, the sole administrator must contact the official IMDS Service Center (DXC Technology) and request an MFA reset. The request should clearly state that the user is the only Company Administrator and no longer has access to the authenticator. Once the Helpdesk resets the MFA, the next login will display a QR code to register the new device and restore access.

IMDS Helpdesk email:

imds-helpdesk@dx.com

2.5 HOW TO CREATE A CONTACT PERSON

To create a Contact person to send the MDSs you should follow these steps:

- 1) Log in to IMDS
- 2) Go to the "Administration" menu, after click on "Contact Person"
- 3) In the "Contact Person" section click on "Create"
- 4) Enter the mandatory data that are indicated with a red asterisc
- 5) Click on the Floppy Disk icon, so the Contact person will receive an email reporting an external link to activate himself in IMDS. Before clicking on the link the Contact person should be logged out to IMDS.

3 CREATION OF THE MDS

3.1 MDS TYPES AND TREE STRUCTURE

The MDS types are Components, Semi-Components and Materials. The following table describes the different types.

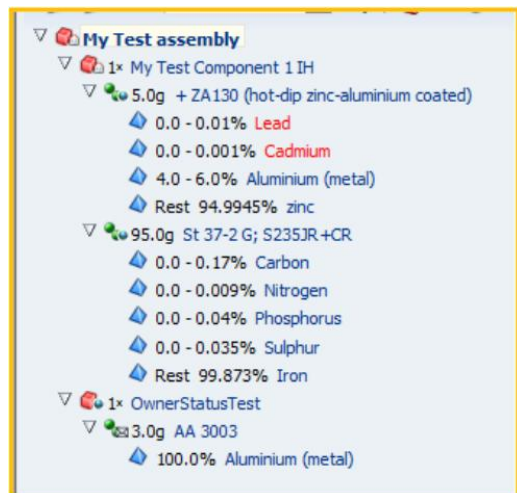
MDS Type	Icon	Description	Can be attached to	Can have child nodes	Has weight field
Material		Represents a homogeneous structure – if a slice were taken through the item, there would be no layers or visible differentiation.	- Materials - Semi-Components - Components	- Material - Substance	No
SemiComponent		Similar to a material, this 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	- Semi-Component - Material	No
Component		Used to represent an assembly or component with a defined weight and used in whole number quantities. Examples include a bolt, 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 - Semi-Component - Material	Yes

These icons appear in tree structures and in search results.

Many sub-elements may visually separate items at the same level. Although IMDS will permit different element types at the same level, recommendations specify having only one element type per level.

The materials are composed of basic substances in different percentages.

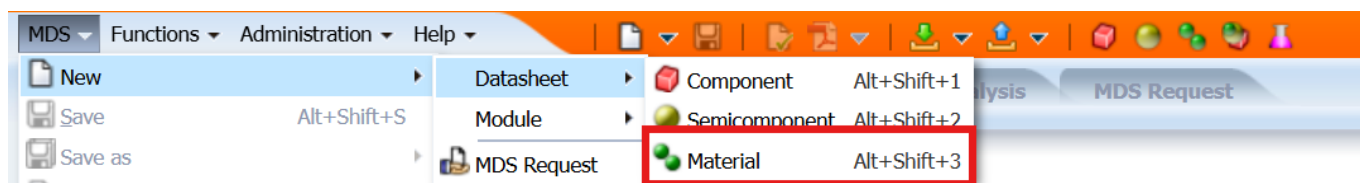
The following figure displays a representative component tree structure:



- 1) "My Test Assembly" is the final product composed by the two components "My Test Component 1 IH" and "OwnerStatusTest". All these parts are Components.
- 2) "My Test Component 1 IH" is composed by the two materials "ZA130 (hot-dip zinc-aluminium coated)" and "St 37-2 G; S235JR +CR" while the component "OwnerStatusTest" is composed only the material "AA 3003".
- 3) The three materials are composed by basic substances that cannot have children, even other basic substances.

3.2 HOW TO CREATE MDS FOR MATERIAL

To create an MDS for material you need to follow the command illustrated in the picture:



After you need to select a material classification in accordance with the IMDS SC90:

Classification number	Classification name	Must contain	Must not contain
1	Steel and iron materials		
1.1	Steels / cast steel / sintered steel	Fe: highest portion	C ≥ 2%
1.1.1	unalloyed, low alloyed	Fe ≥ 95%	C ≥ 2%
1.1.2	highly alloyed	Fe: highest portion	Fe ≥ 95% C ≥ 2%
1.2	Cast iron	Fe: highest portion	-
1.2.1	Cast iron with lamellar graphite / tempered cast iron	Fe: highest portion C ≥ 2%	-
1.2.2	Cast iron with nodular graphite / vermicular cast iron	Fe: highest portion C ≥ 2%	-
1.2.3	Highly alloyed cast iron	Fe: highest portion C ≥ 2%	-

2	Light alloys, cast and wrought alloys		
2.1	Aluminium and aluminium alloys	Sum of Aluminium + Aluminium nickel (AlNi) + Aluminium alloy, nonbase, Al,Be: highest portion	-
2.1.1	Cast aluminium alloys	Sum of Aluminium + Aluminium nickel (AlNi) + Aluminium alloy, nonbase, Al,Be: highest portion	-
2.1.2	Wrought aluminium alloys	Sum of Aluminium + Aluminium nickel (AlNi) + Aluminium alloy, nonbase, Al,Be: highest portion	-
2.2	Magnesium and magnesium alloys	Mg: highest portion	-
2.2.1	Cast magnesium alloys	Mg: highest portion	-
2.2.2	Wrought magnesium alloys	Mg: highest portion	-
2.3	Titanium and titanium alloys	Ti: highest portion	-
3	Heavy metals, cast and wrought alloys		
3.1	Copper (e.g. copper amounts in cable harnesses)	Cu ≥ 99%	-
3.2	Copper alloys	Cu: highest portion	-
3.3	Zinc alloys	Sum of Zinc and Zinc dimer: highest portion	-
3.4	Nickel alloys	Ni: highest portion	-
3.5	Lead	Sum of Lead or its compounds: highest portion	-
4	Special metals		
4.1	Platinum / rhodium	Sum of Platinum and Rhodium: highest portion	-
4.2	Other special metals	Other metals or their sum, w/o Fe, Al, Mg, Ti, Cu, Zn, Ni, Pb, Pt, Rh: highest portion	-
5	Polymer materials		
5.1	Thermoplastics		
5.1.a	filled Thermoplastics	Sum of substances containing ...poly... in their names excluding sum of Basic Duromers ≥ 10% Sum of fillers/reinforcing materials and dual use substances used as fillers ≥ 5%	-
5.1.b	unfilled Thermoplastics	Sum of substances containing ...poly... in their names excluding sum of Basic Duromers ≥ 10%	Sum of fillers/reinforcing materials ≥ 5%

5.2	Thermoplastic elastomers	Sum of substances containing ...poly... in their names excluding sum of Basic Duromers $\geq 5\%$	-
5.3	Elastomers / elastomeric compounds	Sum of Basic Rubbers or substances containing ...poly... in their names excluding Basic Polymers and Basic Duromers and $\geq 5\%$	-
5.4.1	Polyurethane	Sum of substances containing ...poly... in their names $\geq 5\%$	-
5.4.2	Unsaturated polyester	Sum of substances containing ...poly... in their names excluding sum of Basic Polymers $\geq 5\%$	-
5.4.3	Other duromers	Sum of substances containing ...poly... in their names excluding sum of Basic Polymers $\geq 5\%$	-
5.5.2	Textiles (in polymeric compounds)	-	Sum of basic substances as listed in this table for class 1. - 4. $\geq 95\%$
6	Process polymers		
6.1	Lacquers	Sum of Basic Duromer, ...poly... or shellac $\geq 5\%$	-
6.2	Adhesives, sealants	-	Sum of basic substances as listed in this table for class. 1. - 4. $\geq 95\%$
6.3	Underseal	-	Sum of basic substances as listed in this table for class. 1. - 4. $\geq 95\%$
7	Other materials and material compounds (scope of mixture)		
7.1	Modified organic natural materials (e.g. leather, wood, cardboard, c...	-	Sum of basic substances as listed in this table for class. 1. - 6. $\geq 50\%$
7.2	Ceramics / glass	-	Sum of basic substances as listed in this table for class. 1. - 4. (excluding silver and gold) $\geq 80\%$
7.3	Other compounds (e.g. friction linings)	-	
9	Fuels and auxiliary means		
9.1	Fuels	-	Sum of basic substances as listed in this table for class. 1. - 6. $\geq 50\%$

9.2	Lubricants	-	Sum of basic substances as listed in this table for class. 1. - 4. $\geq$ 50%
9.3	Brake fluid	-	Sum of basic substances as listed in this table for class. 1. - 4. $\geq$ 50%
9.4	Coolant / other glycols	-	Sum of basic substances as listed in this table for class. 1. - 4. $\geq$ 50%
9.5	Refrigerant	-	Sum of basic substances as listed in this table for class. 1. - 6. $\geq$ 50%
9.6	Washing water, battery acids	-	Sum of basic substances as listed in this table for class .1. - 6. $\geq$ 50%
9.7	Preservative	-	Sum of basic substances as listed in this table for class .1. - 4. $\geq$ 50%
9.8	Other fuels and auxiliary means	-	Sum of basic substances as listed in this table for class. 1. - 4. $\geq$ 50%

The classifications highlighted in orange on the table can't be selected because they represent a group of materials.

The material classification could be changed, kindly, check the updated list at the following link in the section "List of Errors and Corrections in IMDS":

https://public.mdsystem.com/en/web/imds-public-pages/faq/-/asset_publisher/AuVyF7A3kM3i/content/imds-errors-and-warnin-1

Note: the material classifications 8 (8.1 and 8.2) and 5.5.1 are not available in the system and so they cannot be chosen. If you are modifying an existing MDS, please substitute these material classifications with the most suitable.

This request follows the "Recommendation 019 Update from the IMDS Steering Committee, June 2020". In the recommendation it is specifically requested not to relax in carrying out the transition from 8.x classifications to those based on substance composition in order to be able to improve the quality of data present in the MDSs. If a MDS presents the classifications 8.1, 8.2 or 5.5.1, it will be automatically rejected. The reason of this rejection is based on the IMDS Newsletter 62 where it is explicitly written that the recipient has the right to reject components containing these materials.

To explore in depth this topic you can consult, from the section "Help", "Recommendations", the recommendations IMDS 001 and IMDS 001a.

Details

Common Information

Type **Material (own MDS)**
 ID / Version **1460029238 / 0.01**
 Node ID **1460029238**
 Node count **1**
 MDS Supplier **IVECO Light**
 Name *
 Trade name
 Internal Mat.-No.
 Preliminary MDS ☐

Once the selection is made, click Apply.

In the section details on the right, fill in the field "Name" entering the material name. You can also fill all the other fields that aren't mandatory.

If you flag the preliminary MDS field and you send the MDS to Iveco, the MDS will be automatically rejected.

Because the preliminary MDS are created only for prototypes but the sendable MDSs to Iveco are only the final and validated ones.

3.2.1 ADDING A BASIC SUBSTANCE OR A MATERIAL



You can enter the materials or the basic substances that compose the material that you are creating.

To select a basic substance, click on the icon with the blue pyramid displayed on the row where is written "show regulatory information". The substances that can be entered are of two types: the first are the Substances that have an assigned CAS number, the second one are the Pseudo-substances that haven't an assigned CAS number. You can search the Pseudo-substances by name.

MDS - MATERIAL DATA SYSTEM

Search Criteria

Name / Synonym
CAS No.
EU-Index
EINECS-No.

GADSL: duty-to-declare
GADSL: prohibited
REACH-SVHC

Group

BSL Export Search

All the search by name must be done in English.

While creating a Material MDS a substance can be added and flagged as confidential as long it is not part of GADSL or REACH-SVHC (Substances of very high concern from the candidate list). However, if a substance being marked as confidential in a Material MDS is added to one of these lists at a later point of time, this MDS must not be sent or referenced anymore, because substances of concern must be disclosed. The IMDS check procedure returns an Error message for all MDSs containing confidential substances of concern. Users will be informed by e-mail in case IMDS substances were flagged as REACH-SVHC or GADSL and used before as confidential in a Material MDS.

Once you found and applied the substance, it's required to enter the percentage amount in the "Amount and weight section". You can choose to enter a fixed value or a range of percentage. Alternatively, the option rest sets the percentage value to reach 100%.

If you need to add another substance, click on the name of the material that you are creating on the left of the screen, where the tree structure is displayed. Now, you can repeat the already described procedure to enter the new substance.

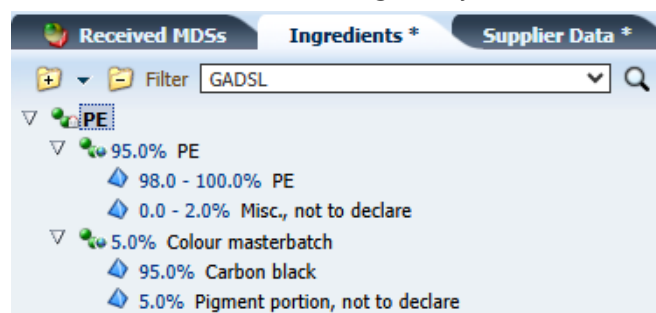
It's required to declare 100% of substances composing the material. For this reason, it's highly suggested to not use the data reported in the Safety Data Sheet because, generally, it's not reported the 100% of the chemical composition.

The complete list of Prohibited Substances is listed in the Iveco standard attachment 10-0802-A002.

To verify if there are warnings or errors in the MDS click on the icon "Execute check":



If the material is composed by other materials, click on the icon with the two green spheres displayed on the row where is written "show regulatory information". After, you can add the materials that you have already created and released internally, or published materials, or materials that have been sent to and accepted by your company.



Once you found and applied the material, it's required to enter the percentage amount in the "Amount and weight section".

To add another material, click on the name of the material that you are creating on the left of the screen, where the tree structure is displayed.

3.2.2 SENDING AND INTERNAL RELEASE

After checking that the material doesn't present errors, click on the section "Supplier data" and select the Organisation unit and the Contact person.

Received MDSs | **Ingredients *** | **Supplier Data *** | **Recipient data *** | **Analysis** | **MDS Request**

Name | ID version | Node ID | Status | Edit mode

Company

Company | Organisation unit | Company ID | Company ID | DUNS Number | DUNS Number | Company Address | Company Address

Contact Person

Contact Person | E-Mail | Telephone No. | Fax No.

The next step is the section "Recipient data", where you can send to Iveco or release internally the material. If the material is used into a component, the internal release is mandatory.

Received MDSs | **Ingredients *** | **Supplier Data *** | **Recipient data *** | **Analysis** | **MDS Request**

Name Material1460057640 | ID version 1460057640 / 0.01 | Node ID 1460057640 | Status Edit mode

Send | Propose | **Release Internal** | Publish

There are no recipients assigned to this MDS yet.

To send a material to Iveco click on the house icon, search the Iveco organization unit using the Company ID reported at chapter 1.5 (page 7).

Received MDSs | **Ingredients *** | **Supplier Data *** | **Recipient data *** | **Analysis** | **MDS Request**

Name Material1460057640 | ID version 1460057640 / 0.01 | Node ID 1460057640 | Status Edit mode

Send | Propose | Release Internal | Publish

There are no recipients assigned to this MDS yet.

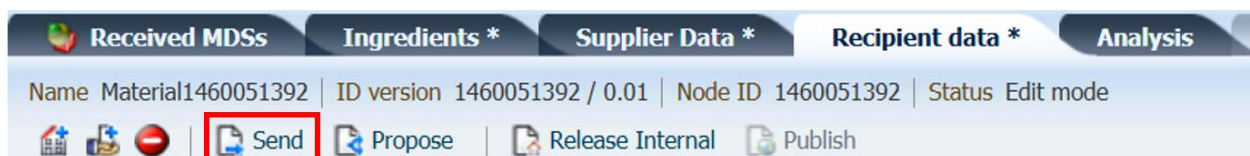
After entering your supplier code, that is reported in the Purchase Order, click on the pen icon to enter the Iveco part number.

Details

☒ **Transfer Information**

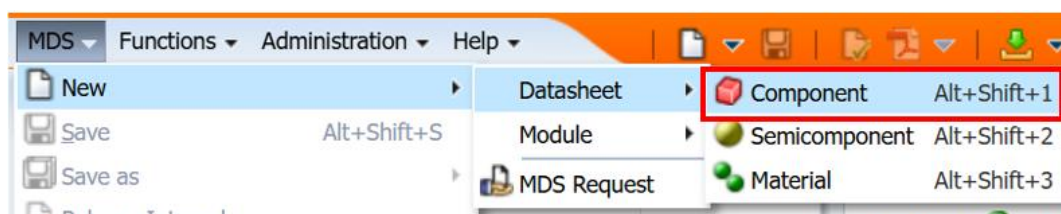
Company IVECO LIGHT [4772]
 Organisation unit IVECO LIGHT [4772]
 Recip. Status edit mode
 Supplier Code - ? 
 Name ?
 Internal Mat.-No. - ?  ?
 Transmission/Check Date not available
 Forwarding allowed ☒

Finally, click on the "Send" icon to complete the procedure.



3.3 HOW TO CREATE MDS FOR COMPONENT

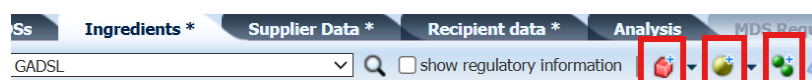
To create a MDS for components you need to follow the command illustrated in the picture:



Then, it's mandatory to fill in the fields "Description" and "Measured weight per items".

It is suggested to provide a clear and meaningful description in the description field, excluding numbers or alphanumeric codes.

3.3.1 ADDING COMPONENTS, SEMI-COMPONENTS AND MATERIALS



You can enter the components, semi-components or materials that compose the component that you are creating.

To enter a component, click on the icon with the red cube, or the yellow sphere to select a semi-component, while click on the two green spheres to add a material. All these icons are displayed on the row where is written "show regulatory information".

You can add the component, the semi-component and the materials that you have already created and released internally or published or MDS that have been sent to and accepted by your company.

If you entered a material or a semi-component, it's required to enter the weight amount in the "Amount and weight section". For a semi-component it's possible to calculate the weight by the volume or the surface.

If you add a component in the "Amounts and Weights" section, it's required to enter the quantity of the component.

To add another material, semi-component or component click on the name of the component that you are creating on the left of the screen, where the tree structure is displayed.

There are admissible deviations between the measured weight, the one entered in the component's section, and the calculated weight resulted from the sum of the weights of the materials.

The deviations based on the component weight are:

Component weight (X)	Max deviation (%)
$X < 1g$	100
$1g \leq X < 100g$	10
$100g \leq X < 1kg$	5
$1kg \leq X < 10kg$	2
$10kg \leq X < 100kg$	1
$X \geq 100kg$	0,5

3.3.2 SENDING AND INTERNAL RELEASE

After checking that the component doesn't present errors, click on the section "Supplier data" and select the Organisation unit and the Contact person.

The screenshot shows the 'Supplier Data' tab selected. Under the 'Company' section, the 'Organisation unit' dropdown is highlighted with a red arrow. Under the 'Contact Person' section, the 'Contact Person' dropdown is also highlighted with a red arrow.

The Next step is the section "Recipient data" where you can send to Iveco or release internally the component. If the component is used into another component, the internal release is mandatory.

The screenshot shows the 'Recipient data' tab selected. The 'Release Internal' button is highlighted with a red box. Below the button, it says 'There are no recipients assigned to this MDS yet.'

To send a component to Iveco click on the house icon, search the Iveco organization unit using the Company ID reported at chapter 1.5 (page 7).

Received MDSs | Ingredients * | Supplier Data * | **Recipient data *** | Analysis | MDS Request

Name Material1460057640 | ID version 1460057640 / 0.01 | Node ID 1460057640 | Status Edit mode

   |  | 

There are no recipients assigned to this MDS yet.

After entering your supplier code, that is reported in the Purchase Order, click on the pen icon to enter the Iveco part number.

Details

☒ **Transfer Information**

Company IVECO LIGHT [4772]
 Organisation unit IVECO LIGHT [4772]
 Recip. Status edit mode
 Supplier Code -  
 Name 
 Internal Mat.-No. -   
 Transmission/Check Date not available
 Forwarding allowed ☒

Finally, click on the "Send" icon to complete the procedure.

Received MDSs | Ingredients * | Supplier Data * | **Recipient data *** | Analysis

Name Material1460051392 | ID version 1460051392 / 0.01 | Node ID 1460051392 | Status Edit mode

   |  | 

3.4 MULTIPLE PART NUMBERS SUBMISSION

It's possible to send multiple part numbers with a single MDS. These part numbers must have the same chemical composition and similar weight with a tolerance of 2%.

To enter the similar part numbers, first, tick the option "Parts for which the MDS is Valid" in the section "Company specific" in the field "Recipient data". Then, enter the part number in the field "Reference" and click on the green plus.

☒ **Company specific**

Parts for which the MDS is valid ☒ Do you have drawing numbers that are identical in term of material and weight to the referenced one that can be linked with this MDS?

Reference

3.5 PARTS MARKING

If in the MDS there is a material that belongs to a 5.x classification, it's necessary to answer to the "Parts marking" field, that is reported in the ingredients section of the component.

The answer is mandatory if the component contains:

- 1) more than 100g of polymeric materials with the classification 5.1.x, 5.4.x and 5.5.x or
- 2) more than 200g of polymeric materials with the classification 5.2 and 5.3.

If the question isn't mandatory is mandatory to answer with:

"Not Applicable (Parts do not require marking due to specifications of weight, geometric restrictions, or surface requirements.)"

3.6 ADMITTED RANGE TOLERANCE

There are admissible range of percentages between the lower and upper value of percentage based on the MDS type and the lower limit of the range:

Item	Content Range (from X% to Y%)	Tolerance ($M = Y\% - X\%$)
Subcomponent	$0 < X \leq 100$	Follows tolerances in drawings
Semi-component or material	$0 < X \leq 100$	$M \leq 20\%$
Basic substance	$0 \leq X \leq 7,5$	$M \leq 3\%$
	$7,5 < X \leq 20$	$M \leq 5\%$
	$20 < X \leq 100$	$M \leq 10\%$

3.7 RESPONSE TIME

After submitting the MDS, you will receive a response within three days.

If the MDS is rejected, you will receive an email notifying you about the reasons of rejection.

For any inquiries regarding the reasons of rejection, please contact the following email address:

regulated-substances@ivecogroup.com

3.8 NEW MDS VERSION

If you need to send an updated version of your MDS, follow these instructions:

- 1) Search your MDS in the "Sent MDS" section
- 2) Right click on the row of the searched MDS
- 3) Click on "Copy", then "New Version"

Note: if your MDS contains published materials, ensure that the most up-to-date versions are included.

3.9 PCF, PRODUCT CARBON FOOTPRINT

It's kindly recommended to provide Product Carbon Footprint (PCF) of the product through the International Material Data System ("IMDS"). The Product Carbon Footprint into IMDS follows the Catena-X Rulebook.

The methodology used to calculate the PCF should be based on the ISO14067: "Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification".

It's possible to choose different rulebooks aligned with the Catena-X rulebook:

TfS The Product Carbon Footprint Guideline for the Chemical Industry V.4

<https://www.tfs-initiative.com/pcf-guideline>

Worldsteel LCI methodology (2017)

<https://worldsteel.org/wp-content/uploads/Life-cycle-inventory-methodology-report.pdf>

European Aluminum methodology (2023)

<https://mailchi.mp/european-aluminium/l8webu401b>

International Aluminum Institute methodology (2021)

<https://international-aluminium.org/resource/aluminium-carbon-footprint-methodology/>

The calculation of the carbon footprint must be reviewed at least once per year and must be updated whenever the new PCF value increases by 5% compared with the last reported value.

The update is mandatory if structural or methodological changes or changes in the accuracy of the data occur. For Standard Material MDS the PCF is not present in the MDS, so it's necessary to require the PCF information to the real material manufacturer. While for Published MDS all the information about PCF is enabled and the correct production site can be chosen by the user.

The first step is to calculate the Product Carbon Footprint (PCF) and the Transport Carbon Footprint (TCF) from the supplier to the client, according to the methodologies mentioned in the previous section.

The PCF and TCF should be entered in the section "Ingredients":

☒ Product Carbon Footprint

PCF of referenced MDSs 

PCF per production site    ☐ show discontinued production sites

Region	Country	Zip or Postal Code	Total PCF (including biogenic)	Time Period	TeR	TIR

After clicking the green plus button, a new section will appear where you can enter the required data. The first section reports the production site information and the standard/rulebook used to calculate the PCF:

Production Site Region: Global Country: Zip or Postal Code: Subdivision: DUNS No.:	PCF Contact PCF Contact: E-Mail: Telephone No.:	Standards and Verification Standard / Rulebook: Certification / Verification done by appointed 3rd party: Further details / link:
--	--	--

The Standard/rulebooks that can be chosen are the following:

- Catena-X v3 (2024)
- TfS V3.0 (2022) + additional req.
- worldsteel (2017) + additional req.
- IAI v2.0 (2021) + additional req.
- EA Rev.8 (2023) + additional req.

It's also possible to report if the certification/verification was done by an appointed 3rd party.

If the answer in the Certification/verification section is "Yes", it's mandatory to report a weblink of the related document or information to access to the document, or the named PCF contact responsible for the certification/validation.

Product Carbon Footprint PCF of referenced MDSs: Total PCF (excluding biogenic): kg CO2e / kg of material Total PCF (including biogenic): kg CO2e / kg of material Time Period: - Exempted emissions: % Exempted emissions description:	PDS / DQR PDS: % DQR Technology (TeR): Time (TIR): Geography (GeR):
---	--

In the section of the picture reported above, it's possible to report the results of the Product Carbon Footprint calculation. The "Time Period" is not a validity time, it is the time period in which the production took place and for which the calculations were published.

The "Exempted emissions" must be below 3% and the justification is mandatory for any value different from 0. Then, it's mandatory to report Primary Data Share (PDS), which represents the amount of primary data used for the calculation of the PCF.

Finally, there is the Data Quality Rating section (DQR). The range of each DQR is from 1 (best) to 5 (worst). If a sectorial guidance doesn't exist, the DQR must be set to 5.

The next section is where it is possible to fill in all the detailed GHG emissions and the carbon content:

Detailed GHG emissions

- Net fossil GHG emissions and removals 0.0 kg CO₂e / kg of material *
- Net biogenic GHG emissions and removals other than biogenic CO₂ 0.0 kg CO₂e / kg of material *
- Net biogenic GHG emissions and removals including biogenic CO₂ 0.0 kg CO₂e / kg of material *
- GHG emissions and removals from land use change 0.0 kg CO₂e / kg of material *
- GHG emissions and removals from direct land use change 0.0 kg CO₂e / kg of material *
- GHG emissions resulting from aircraft transportation 0.0 kg CO₂e / kg of material *

Carbon Content

- Carbon Content 0.0 kg C / kg of material ? *
- Biogenic Carbon Content 0.0 kg C / kg of material ? *

Finally, it's possible to enter the data of the Transport Carbon Footprint in the Recipient Data section:

Product Carbon Footprint

Outbound Transport CF
☐ show discontinued production sites

Region	Country	Zip or Postal Code	Customer Site	Transport (including biogenic)

Transport CF

- Production Site *
- Customer Site
- Coverage Customer responsibility ?
until supplier outbound gate
no transport covered
- Transport Carbon Footprint (excluding biogenic) kg CO₂e / component ?
- Transport Carbon Footprint (including biogenic) kg CO₂e / component ?

Detailed GHG emissions

- Net fossil GHG emissions and removals 0.0 kg CO₂e / component *
- Net biogenic GHG emissions and removals other than biogenic CO₂ 0.0 kg CO₂e / component *
- Net biogenic GHG emissions and removals including biogenic CO₂ 0.0 kg CO₂e / component *
- GHG emissions and removals from land use change 0.0 kg CO₂e / component *
- GHG emissions and removals from direct land use change 0.0 kg CO₂e / component *
- GHG emissions resulting from aircraft transportation 0.0 kg CO₂e / component *

For further detailed information, you can consult the Recommendation IMDS 027 - Product Carbon Footprint (PCF).

3.10 OTHER USEFUL LINKS

In this section are reported some useful links to go into detail regarding the creations of MDS.

Tutorials from IMDS website:

<https://public.mdsystem.com/en/web/imds-public-pages/tutorials>

Public FAQ IMDS:

<https://public.mdsystem.com/en/web/imds-public-pages/faq>



How to create MDS component:

http://public.mdsystem.com/documents/10906/17094/IMDS+Create+MDS+tips_Component.pdf/426cf575-8398-474e-9c62-8f39d7db9b32

How to create MDS material:

http://public.mdsystem.com/documents/10906/17094/IMDS+Create+MDS+tips_Material.pdf/11ee4395-31de-4b44-ae30-6e3b34d2e98d

IMDS User Manual:

<https://public.mdsystem.com/en/web/imds-public-pages/help>

List of Errors and Corrections in IMDS:

https://public.mdsystem.com/en/web/imds-public-pages/faq/-/asset_publisher/AuVyF7A3kM3i/content/imds-errors-and-warnin-1

4. MDS REJECTION REASONS

In this section the most common reasons of rejection are reported.

4.1 PARTS MARKING FOR NO INFORMATION GIVEN

If the component is lighter than the limits reported in chapter 3.5 of this Guideline the correct answer is:

"Not applicable (Parts do not require marking due to specifications of weight, geometric restriction or surface requirements)".

4.2 REJECTION FOR WRONG MATERIAL CLASSIFICATIONS

If the MDS was rejected for wrong classifications, please substitute the classifications with the suitable ones from the file named "List of Errors and Corrections in IMDS" that you can download from the following link:

https://public.mdsystem.com/en/web/imds-public-pages/faq/-/asset_publisher/AuVyF7A3kM3i/content/imds-errors-and-warnin-1

We also remind you that the classifications 5.1, 5.4, 5.5.1, 8.1 and 8.2 are no longer available.

4.3 DEVIATION BETWEEN CALCULATED AND ESTIMATED WEIGHT MEASURED EXCEED THE ALLOWED THRESHOLD

The deviation may not exceed a certain value. Exceeding this threshold will result as a warning in the MDS Check. The threshold depends on the component's measured weight:

Measured weight per item	Allowed max. deviation
< 1 g	100%
< 100 g	10%
< 1 kg	5%
< 10 kg	2%
< 100 kg	1%
> 100 kg	0.50%

4.4 RANGE TOO BIG THAN ALLOWED TOLERANCE

In the following table the lower limit of the range is represented by the letter X, the higher limit of the range by the letter Y and the tolerance by the letter M.

The tolerance allowed are the following:

Item	Content Rate (From X% to Y%)	Tolerance (M = Y% - X%)
Subcomponent	$0 < X \leq 100\%$	Follows tolerances in drawing
Semicomponent or material	$0 < X \leq 100\%$	$M \leq 20\%$
Basic substance	$0 < X \leq 7,5\%$	$M \leq 3\%$
Basic substance	$7,5 < X \leq 20\%$	$M \leq 5\%$
Basic substance	$20 < X \leq 100\%$	$M \leq 10\%$

4.5 MDS REJECTED FOR IMDS COMMITTEE PUBLISHED MATERIAL

If the rejected material was published by IMDS-Committee (ID 423), IMDS-Committee / ILI Metals (ID 18986) or Stahl und Eisen Liste (ID 313), please contact us at regulated-substances@ivecogroup.com.

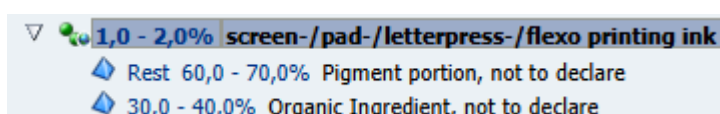
Also, please, verify if the material MDS is the newest available version.

4.6 HIDDEN IMDS MATERIAL COMMITTEE

We would like to inform you that the MDS of material “screen-/pad-/letterpress-/flexo printing ink” can no longer be accepted.

To ensure compliance with several regulations relevant to the automotive industry, Iveco Group needs all chemical substances to be declared in MDSs, minimizing the use of jockers, confidential and not declarable substances.

As shown in screenshot below, the chemical composition of material “screen-/pad-/letterpress-/flexo printing ink” doesn’t meet the previous requirement, as it consists entirely of undeclarable substances:



[IMDS Newsletter 62](#) of February 2024 informs that MDSs published by the IMDS Committee, whose ingredients are not defined in a standard, had been hidden in IMDS:

“The reason for hiding the MDSs is that the IMDS Steering Committee is responsible for all its published datasheets and encourages IMDS users to use standard materials. However, this means that users no longer ask their suppliers for information about some MDSs and instead use standard materials directly. This can result in poor quality data as the MDSs do not always match the product, which may lead to non-compliance with regulations.”

The complete list of the materials/sub-components hidden by IMDS Committee was shared in IMDS News of 29th April 2024:

<https://public.mdsystem.com/en/web/imds-public-pages/news-2024>

We kindly request that you check whether your components still contain any of these materials and, if so, consider replacing them with more suitable MDSs.

4.7 PRELIMINARY MDS

A preliminary MDS will be rejected so, please check always that the MDS version you are sending is the final one and that it is not marked as preliminary.

4.8 MDS REJECTED FOR SUBSTANCE AMOUNT OUTSIDE THE SPECIFIED RANGE OR HEAVY METAL APPLICATION

In this case, please contact us at regulated-substances@ivecogroup.com.

If the MDS is acceptable manually, please notify us at regulated-substances@ivecogroup.com that the new version is uploaded on IMDS.

4.9 MDS REJECTED FOR WILDCARDS/JOKERS AMOUNT

If the amount of a wildcards/jokers substance exceeds 10%, the MDS will be rejected automatically.

The only case that manual approval from Iveco is allowed is for masterbatch materials: plastics masterbatches, generally, consist of a basic polymer and a (colored) pigment. If a plastics material consists of sub-materials, any restrictions concerning the substance ranges and sum of (highly) confidential substances do not apply to the sub-materials but are calculated with regard to the topmost material level.

