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The New ELV-Directive
The New ELV-Directive

• The European End-of-Life-Vehicles (ELV) Directive 2000/53EC that has been entered into force on October 21st, 2000, imposes specific rules for materials used in cars.
  • art.4: prohibits the use of Pb, Cd, CrVI, Hg (with exception of the cases listed in Annex II) in vehicles put on the market after July 1st 2003.
  • art.8: know the location of all hazardous substances (according to EU Directive 67/548) in vehicles when they are dismantled, available from October 2002 for each type of new vehicle put on the market.
  • art.7: recycling targets (requested by homologation authority from 2005 for new type-approved vehicles and from 2007 for all new vehicles)

• You as our Supplier are responsible to ensure that the ELV-Directive is fulfilled, and need to inform us about the contents of every part you deliver to GM/Fiat.
  • Note: Even parts that contain items or materials that are presently exempted (in Annex II of the ELV-Directive) must be declared via IMDS.
• Opel and Fiat have previously requested that their Suppliers enter data into IMDS. The current GM/Fiat letter, dated January 2002, requesting IMDS data, should be interpreted as a reminder to enter data for these Suppliers.


• Note: Holden and GM de Brazil are not requesting that their Suppliers use IMDS at this time. Holden and GM de Brazil Suppliers should continue to provide Material Data Sheets according to GMW3059 (appendix A)
1) To enter all requested data for all current production parts that contain the banned Heavy Metals into IMDS, using the input option "Request Hg/Cr(VI)/Cd/Pb" (see p.8) no later than March 31st, 2002 for our short term report. This input option does not exempt you from compulsory requirements to provide all data concerning the composition of the components supplied by your company, according to clause 3).

This clause 1) does not apply to current production parts for GM North American Vehicle Operations and North American Powertrain.

2) To provide all requested data concerning the composition of components for all ongoing new projects including their carry over parts (e.g. the Epsilon program for OPEL / SAAB and Thesis, Stilo SW, Punto restyling for FIAT) supplied by your company and enter it into the IMDS no later than May 31st, 2002 or by PPAP.

As of June 1st, 2002, suppliers to GM North American Vehicle Operations and North American Powertrain should start using IMDS.

3) To provide all requested data concerning the composition of all other components supplied by your company

   a) To OPEL, VAUXHALL, SAAB, FIAT, or GME/Fiat Powertrain in the IMDS no later than September 30th, 2002.

   b) To North America Vehicle Operations or North America Powertrain in the IMDS by:
      - December 31st, 2002: For all parts on vehicles/powertrains exported to Europe.
      - December 31st, 2003: For all other current vehicles/powertrains other than European exports.
The requested information about Heavy Metals are needed for all the parts in vehicles that will be put on the market by July 1\textsuperscript{st} 2003.

GM/Fiat are temporarily making it possible to reduce data input by concentrating on components containing the banned substances (Hg, Cr\textsubscript{VI}, Cd, Pb) that must be eliminated from vehicles. For Clause 1), list the amount of Hg, Cr\textsubscript{VI}, Cd and Pb contained in your part. Then use the ”joker-substance” ”Request/Hg/Cr\textsubscript{VI}/Cd/Pb” (to be found among the Basic Substances) to sum up the rest of the ingredients to 100%. See example Component ZZ below:

Note: Exemptions in the ELV-Directive have to be input as well.

Structure tree: A preview of the component:

\[
\begin{array}{|c|c|c|c|c|c|c|c|}
\hline
\text{Material No.} & \text{Article/Part Name} & \text{Level Quantity} & \text{Material of Assembled Part} & \text{Mass [g]} & \text{Material / Product Related Name} & \text{Mass [%]} & \text{Substances CAS-No.} & \text{Basic substances name [%]} \\
\hline
\text{ZZ546574} & \text{Component ZZ} & 100.0 & \text{Material YY} & 25.0 & \text{Cadmium} & 30.0 & \text{Request/Cr/Cd/Pb} & \text{0.0} \\
\hline
\text{ZZ546574} & \text{Material YY}  & 74-40-9 & \text{Cadmium} & 30.0 & \text{7459-97-0} & \text{Mercury} & 10 & \text{Request/Hg/Cr6/Cd/Pb} & \text{0.0} \\
\hline
1 & \text{Material YY} & 74-40-9 & \text{Cadmium} & 30.0 & \text{7459-97-0} & \text{Mercury} & 10 & \text{Request/Hg/Cr6/Cd/Pb} & \text{0.0} \\
\hline
1 & \text{Material YY} & 74-40-9 & \text{Cadmium} & 30.0 & \text{7459-97-0} & \text{Mercury} & 10 & \text{Request/Hg/Cr6/Cd/Pb} & \text{0.0} \\
\hline
\end{array}
\]
2) This information is requested by GM/Fiat to ensure that the new vehicles will comply with the specification GMW3059 (GM) and Normative no. 9.01102 (Fiat) as well as the ELV-Directive 2000/53/EC requirements.
   - For parts that have not gone through PPAP: The IMDS Material Data Sheet (MDS) has to be submitted electronically and approved.
   - For parts that are already PPAP’d: The MDS’s have to be submitted electronically by May 31\textsuperscript{st} 2002.

3) This request is for all of the parts, including spare parts, that are supplied to GM/Fiat except:
   - Spare parts for GM North America Vehicle Operations and GM Powertrain are not included at this time. Future IMDS requirements for spare parts will be requested in a supplier notification through www.gmsupplypower.com in 2002.
   - Chemicals identified by “998” part numbers (e.g. paints, adhesives, lubricants) that are used in GM North America assembly plants are not included in this request.

Note: If you supply the same component to locations in Europe and North America, the European deadline for data submission applies.
Vehicle programs, for the suppliers to give priority to, when reporting material constituents in IMDS:

- **Opel:**
  - *Epsilon*

- **Saab:**
  - *Saab 9-3 Model year 03*
  - *Saab 9-5 Model year 03*
  - *Carry over parts from Saab 9-5 Model year 02 that will be used in Saab 9-5 Model year 03*

- **Vauxhall:**
  - *Opel/Vauxhall Frontera*

- **Fiat:**
  - *Thesis*
  - *Stilo SW*
  - *Punto restyling*
The following vehicle/powertrain programs exported to Europe should be input into IMDS in 2002:

- Vehicles
  - Chevy Trailblazer (GMT360)
  - Cadillac CTS (GMX320) (D-car)
  - Chevrolet Corvette, Cadillac XLR (GMX215) (Y-car)
  - Cadillac Seville STS (GMX295) (K-car)
  - Oldsmobile Alero (N-car)
  - Chevy Silverado (GMT800), Chevy Tahoe (GMT820)
  - Pontiac Transport, Chevy Venture (GMT200) (U-Van)
Explanations/Definitions
Referring to the letter in January 2002

- Explanation of the request for “all data”
  - Each component and all of its parts have to be specified within IMDS as a complete tree structure that represents the actual build of the final component. Each level (component, semicomponent, material, chemical substances) of the tree structure must be inserted in the Material Data Sheet (MDS).
  - All substances that are contained in a material above a threshold value of 0.1% (by weight) or otherwise specified in GMW3059 or Normative no. 9.01102, have to be declared (e.g. included in the MDS).

- Definition of a “Component/Part”
  - Any item that is supplied directly to GM/Fiat that is assigned a unique GM or Fiat part number and ends up being used on a vehicle.
  - MDS’s generated by sub Suppliers must be sent directly to the same company that the actual component is supplied to. MDS’s generated by GM/Fiat’s Tier 1 Suppliers are then sent to GM/Fiat.
Confirmation from Suppliers

Referring to the letter in January 2002

Confirmation from Suppliers

• In the letter, dated January 2002, there is a request to all the suppliers to confirm, by January 31st 2002, that the letter was received, understood and that the appropriate actions will be taken to provide the data via IMDS.

• The link to the confirmation website is: http://www.eds-thn.nu/imds

• To log in to the confirmation website use:
  Username: IMDS
  Password: XXXXX

Note:
  XXXXX = the “DUNS No.” (GM) or the “Fiat Supplier Code” (Fiat) that is printed together with your address in the letterhead, of the letter, dated January 2002.

• In the confirmation website you are requested to give a the name of a contact person. That contact person shall be the IMDS contact person at your company.

• If the ”DUNS No.” (or ”Fiat Supplier Code”) printed on your letter is no longer valid, you can input your current DUNS No. when you fill-out the confirmation sheet (input option: Company DUNS-no.). However, you must use the DUNS No. or the Fiat Supplier Code on your letter in order to log in to the website.
Cascading of IMDS-reporting to Sub-tier Suppliers

- It is the responsibility of Tier 1 Supplier to cascade this information and all requirements, including IMDS reporting requirements, to all sub-tier Suppliers and ensure that all of their sub-tier Suppliers comply with the same requirements.

- It’s also the Tier 1 Suppliers responsibility to make sure that submission of the total material content is carried out.

- IMDS is an industry-wide effort to collect all material information. Any broken link within the supply chain will have a negative impact on the whole process.

- All sub-tier Suppliers must prepare the necessary component-/material-/substance information for their customers, and enter the information into the IMDS before the Tier 1 Supplier can integrate the component information to report to GM/Fiat. If the sub-tier Suppliers do not submit data into IMDS, the Tier 1 Supplier is responsible to input all the data.
Data Shipment – Graphic overview

Sub Supplier 1

Sub Supplier 2

Central Data Base

GM/Fiat

Tier 1 Supplier

Physical flow

Logical flow
Please, cascade this information package including the letter, dated January 2002, at least to the appropriate department managers in your organization.

- Product development
- Manufacturing
- Purchasing
- Materials Engineering
- Corporate Environmental/ Business Unit
- Quality Manager
- Health, Safety and Toxicology
- Information Technology
- Sales
- GM/ Fiat Account Manager/ Regulation Staff
The IMDS system has been designed jointly by a German car maker’s consortium and EDS, a leader in Information Technology systems.

In order to ensure regulatory compliance to the ELV-Directive and any applicable substance regulations over time, it is necessary to document the chemical composition of the entire vehicle.

IMDS allows the OEM’s and the Suppliers to collect and to manage the information regarding the chemical composition of all the components of a vehicle so that compliance to the ELV-Directive is documented.

When supplying data via IMDS, it is done in the same way no matter who the customer is, except the temporary Heavy Metal input option.
The following documents will be modified to include IMDS:

**GM** (Opel, Saab, Vauxhall, GM North America Vehicle Operations, Powertrain)

- Modification of GMW3059 to match the new system requirements (IMDS).
  - *GM/Fiat restricted/reportable substance documents are updated yearly to reflect changes in substance regulations worldwide. This includes EU Directive 67/548/EEC, which is referenced in the ELV Directive.*
- Include the final declarations via IMDS during the product development process.

**Fiat**

- Modification of the attachment CK, in Normative number 9.01102, to match the new system requirements (IMDS).
- To relate the Production Approval (by VDDP) to the availability and correctness of the information inserted in the system.
Access to the System - IMDS
Access to the System - IMDS

• On the public pages of [www.mdsystem.com](http://www.mdsystem.com), you can find general information such as system requirements, training courses calendar, and automotive news etc.

• In order to access the IMDS system and load the requested data, each Supplier must send an application to use IMDS (see p.22) to the EDS help desk, who will release a Company id, User id, and password for each member of your company that is responsible for data entry.
• Suppliers can require the system access authorization to one of the three EDS available help desks. The help desks are also available to answer questions concerning the functionality of the IMDS.

• HELP DESK - GERMANY:
  From 8 AM to 4.30 PM
  E-mail: imds-eds-helpdesk@eds.com
  Phone no. +49 (0) 421 5256-666

• HELP DESK - ITALY:
  From 9 AM to 6.30 PM
  E-mail: imds-fiat@eds.com
  Phone no. +39 (0) 80 3853116

• HELP DESK - NORTH AMERICA:
  From 8 AM to 5 PM (east coast time)
  E-mail: imds-eds-helpdesk-nao@eds.com
  Phone no. +1 765-854-6501
• If your company is not already registered in IMDS:
  • Then you require a user name and a personal password. Once you have registered, you will receive your access information from EDS.
  • The registration form and additional information concerning the registration are available at the public pages at IMDS website www.mdsystem.com, link: System.
  • Information concerning the different available user profiles is located in the registration form.
  • Send your application to use the IMDS to any of the available EDS help desks (see p.21).
System Presentation - IMDS
When logged on to IMDS, you will see this menu:

- To create a Material Data Sheet (MDS) - Choose “Create” in the menu.
In the “Create” menu you can choose to create a component, semi-component or a material (definitions are available on p.40).
To create an MDS for a component, semicomponents or a material there is a four-step procedure to input the requested data.

- Component/Material composition with BOM tree structure, *Ingredients*.
- *Security and Environment* information
- *Supplier data*
- Car Maker *Recipient data*

**Language used in IMDS**

*English must be used as standard language in IMDS.* All names/terms of component/semicomponents/material/chemical content shall be written in English, comments etc. shall be written in English.
In the ingredients menu, the tree structure that represents the component has to be inserted. It is essential that information for each of the levels - component, semicomponent (if any), material and chemical substances are inserted.

The tree structure allows suppliers to attach MDS’s that have been submitted to them by sub suppliers.
Suppliers are required to answer, for GM question no. 8 and for Fiat also question no. 9 and 10 on this page. Input the quantity of recycled material (in weight %) that is actually in the finished component.
• Input the name of the employee who is responsible for sending the MDS to GM/Fiat.
Car Maker Recipient Data

- Recipient name, product identification data (part/item number is very important and refers to the GM/Fiat Auto code/drawing number) and component detailed information. Mandatory information fields are shown in the following example.
The search options within IMDS are as follows:

- Component, semicomponent and all MDS/Modules has the same search criteria.

- Material/Basic Substance search criteria.
Within IMDS there are several data bases to support the data sheets preparation. The most significant are:

- **Substances**: This is the list of the elementary substances with the related CAS number.
  - *The IMDS system contains the VDA List of Declarable Materials, which is a list of substances that has been generated by the German automotive industry. This directory contains approximately 400 substances which are subdivided into two categories: “prohibited” and “declarable”.*
  - *The prohibited substances and the substances that require declaration are red-marked when they are included in an MDS.*

- **Materials**: The input of Material MDS’s by the Material Suppliers, are very important to get a good quality of the data in the material database
  - *The Material Supplier should publish their Material MDS’s, instead of sending it to one costumer only. So the parts supplier are able to reference published Material MDS’s.*
  - *To create an Material MDS, the substances in the database shall be used. If a substance is found to be missing in the database, contact EDS help desk and they will update the database.*
## Basic Substance List

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>CAS No.</th>
<th>EU-Index</th>
<th>Einecs-No.</th>
<th>Synonym</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A mixture of branched and linear propane</td>
<td>127513-17-9</td>
<td>607-261-00-4</td>
<td>407-000-3</td>
<td>Benzeneprop...</td>
</tr>
<tr>
<td>2</td>
<td>88.4 Toluene-4-7,4-octanediol</td>
<td>77-73-6</td>
<td>601-944-00-9</td>
<td>201-62-9</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>7-ethyl-5-chloro-1H-3H-1,5-benzoxazol</td>
<td>7747-35-5</td>
<td>231-810-4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>acetate</td>
<td>60-05-0</td>
<td>016-079-00-7</td>
<td>250-241-2</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>acetaldehyde</td>
<td>75-07-0</td>
<td>608-963-00-6</td>
<td>200-858-5</td>
<td>Acetaldehyde</td>
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<tr>
<td>6</td>
<td>acetamide</td>
<td>60-35-5</td>
<td>616-062-00-4</td>
<td>200-473-5</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>acetic acid</td>
<td>64-19-7</td>
<td>607-062-00-6</td>
<td>200-580-7</td>
<td>acetic acid, of...</td>
</tr>
<tr>
<td>8</td>
<td>Acetic acid (ethyl ester, poly)</td>
<td>29066-40-0</td>
<td>-</td>
<td>-</td>
<td>Vinyl chloride...</td>
</tr>
<tr>
<td>9</td>
<td>Acetic acid (ethyl ester, poly)</td>
<td>68468-78-2</td>
<td>-</td>
<td>-</td>
<td>Polyvinylbutyric...</td>
</tr>
<tr>
<td>10</td>
<td>Acetic acid, (ethylendinitrile)</td>
<td>5361-52-6</td>
<td>-</td>
<td>-</td>
<td>EDTA diodium...</td>
</tr>
<tr>
<td>11</td>
<td>Acetic acid, sodium, trihydrogen</td>
<td>19662-09-8</td>
<td>-</td>
<td>-</td>
<td>Trisodium salt...</td>
</tr>
<tr>
<td>12</td>
<td>acetic-anhydride</td>
<td>108-24-7</td>
<td>607-003-00-9</td>
<td>203-564-9</td>
<td>acetic acid, a...</td>
</tr>
<tr>
<td>13</td>
<td>acelin</td>
<td>519-86-0</td>
<td>208-174-1</td>
<td>2-Butanol-3-o...</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>2-Acetonaphthone, 5'(6',7'(9'-1)</td>
<td>1506-02-1</td>
<td>-</td>
<td>215-133-4</td>
<td>Ethanol, 1-(...</td>
</tr>
<tr>
<td>15</td>
<td>acetone</td>
<td>67-64-1</td>
<td>606-069-00-3</td>
<td>200-662-2</td>
<td>Dimethyl keto...</td>
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<tr>
<td>16</td>
<td>acetanilide</td>
<td>75-05-8</td>
<td>608-961-00-3</td>
<td>200-835-2</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
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<td>99-56-2</td>
<td>604-642-00-1</td>
<td>202-705-7</td>
<td>Methyl Pheny...</td>
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<tr>
<td>18</td>
<td>3-acetyl-1-methyl-2H-pyran-2-one</td>
<td>520-45-6</td>
<td>607-168-00-2</td>
<td>208-253-9</td>
<td>-</td>
</tr>
<tr>
<td>19</td>
<td>acetyl-L-ornithine</td>
<td>508-96-7</td>
<td>208-061-7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>20</td>
<td>acetyl-chloride</td>
<td>75-38-5</td>
<td>607-011-00-5</td>
<td>200-865-6</td>
<td>-</td>
</tr>
<tr>
<td>21</td>
<td>acetyl-cadole</td>
<td>507-02-6</td>
<td>-</td>
<td>208-062-2</td>
<td>-</td>
</tr>
<tr>
<td>22</td>
<td>acetylenic</td>
<td>74-98-2</td>
<td>601-915-00-0</td>
<td>200-816-9</td>
<td>-</td>
</tr>
<tr>
<td>23</td>
<td>acetylene (for)</td>
<td>48-22-0</td>
<td>614-069-00-2</td>
<td>205-121-7</td>
<td>-</td>
</tr>
<tr>
<td>24</td>
<td>acrotylchloride</td>
<td>107-02-8</td>
<td>606-988-00-3</td>
<td>203-463-4</td>
<td>-</td>
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<tr>
<td>25</td>
<td>acrylicamide</td>
<td>79-06-1</td>
<td>616-063-00-0</td>
<td>201-173-7</td>
<td>Ethylene carb...</td>
</tr>
<tr>
<td>26</td>
<td>Acrylamide, polymers</td>
<td>9003-05-8</td>
<td>-</td>
<td>-</td>
<td>Acrylamide re...</td>
</tr>
<tr>
<td>27</td>
<td>Acrylate copolymer</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>28</td>
<td>Acrylate copolymer (WR8&lt;2)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Materials which are subject to legal prohibitions must not be included! Dangerous substances formed or released during use must also be declared. Please note: VDA list for substances that require declaration.

3. Characterization of the component:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Substance</th>
<th>Amount [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-44-0</td>
<td>carbon</td>
<td>0.975</td>
</tr>
<tr>
<td>7440-47-3</td>
<td>chromium</td>
<td>1.925</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>copper</td>
<td>0.15</td>
</tr>
<tr>
<td>7439-06-6</td>
<td>manganese</td>
<td>0.65</td>
</tr>
<tr>
<td>7439-69-7</td>
<td>molybdenum</td>
<td>0.65</td>
</tr>
<tr>
<td>7440-63-8</td>
<td>nickel</td>
<td>0.15</td>
</tr>
<tr>
<td>7723-14-0</td>
<td>phosphorus</td>
<td>0.0125</td>
</tr>
<tr>
<td>7704-34-0</td>
<td>sulphur</td>
<td>0.0125</td>
</tr>
<tr>
<td>7440-21-0</td>
<td>silicon</td>
<td>0.6</td>
</tr>
<tr>
<td>7439-09-9</td>
<td>iron</td>
<td>94.7...</td>
</tr>
</tbody>
</table>
Training for Suppliers/Information GMW3059
Supplier Training

- **Training courses - IMDS:**
  - 1 day training courses are arranged by EDS (cost approx. 400 EURO), in Germany, Italy, Spain, Great Britain, Czech Republic and USA.
  - The course enrolment must be requested by contacting the IMDS help desks.
  - The calendar and locations for the training events is available on the IMDS public page, [www.mdsystem.com](http://www.mdsystem.com), link: Training.

- **Training on line - IMDS:**
  - An e-learning course is available via the IMDS web site (cost approx. $200), to get to know the IMDS application. The interactive online training for IMDS is in English.

- **Training individually**
  - EDS offers in-house courses on request.
• If you do not have a copy of GMW3059 "Restricted and Reportable Substances for Parts" you have to buy it from:
  
  • IHS (Information Handling Service Group)
    Homepage IHS: http://global.ihs.com
  
  • Telephone no. IHS - local:
    
    IHS Nordic countries: + 45 3940 2244
    IHS Germany: + 49 89 895 2690
    IHS Italy: + 39-06-4786-833
    IHS United States: + 1-303-397-7956
    IHS Canada: + 1-613-237-4250
  
  • Latest version of GMW3059 is dated December 2000. An updated version is planned for release in the beginning of 2002.
Data Sheet Preparation
Details and Suggestions
It is possible to create a complete MDS (Material Data Sheet) or a MODULE (incomplete MDS which only has the composition information and is for internal use only).

IMDS allows the user to search for components, semi-components, modules, materials, substances, and archived MDS’s.

IMDS allows the user to analyse the data contained in the MDS’s.

Allows the user to see MDS’s that have been sent and received. It is also possible to accept or refuse MDS’s that have been received.

Internal messaging system

Exit the system
Create Options

It is possible to create Material Data Sheets (MDS’s) according to the following structures:

- **Component:**
  It is the main structure. Here components or assembly's must be inserted. Only MDS’s generated by GM/Fiat’s Tier 1 Suppliers must be sent to GM/Fiat.

- **Semicomponent:**
  This level is used for indefinite material like semi finished parts (coils, sheet), that require additional process steps in order to become a part, or items like paints or adhesive. In the semicomponent the weight is missing. The rule concerning the indefinite materials is that, in the MDS, the quantity of substances that remain on the vehicle must be indicated and not the complete composition:
  Example: For paints, only the cured portion that remains on the vehicle must be reported (not the solvent content).

- **Material:**
  If a material can not be found in the material data base within IMDS, this option must be used to create the material MDS for further use in an MDS of a component or an assembly.
To complete a Material Data Sheet it is necessary to follow 4 steps: Ingredients, Security/environment, Supplier data, Recipient data.
The following buttons are used to create the tree structure of a component:

- Create directly a component in the MDS – The components name, part no. and weight shall be inserted.
- Create directly a semicomponent in the MDS – The semicomponents name, part no. shall be inserted.
- Is used to search for a material in the material data base within IMDS. The material shall be inserted under the component-/semicomponent level.
- Is used to search for a substance in the substance data base within IMDS. Substances shall be inserted under the material level when creating an MDS of a material.
- Is used to search for an already existing MDS of a sub component in the IMDS data base, either self-made or from a sub-supplier.
- Is used to delete a node in the structure tree.
When creating an MDS of a component or assembly it is essential that the structure tree represent the actual component or assembly and that information is inserted on each level, component, semicomponent, material and substance (as shown in the lamp example).

- Also the weight of the sub components and the top level component has to be inserted.

Warning: It is necessary to refer to substances or basic components when building an MDS for a material in the IMDS.

- Metal compositions (e.g. steel): Fe, Cr, Ni etc.

- Plastic compositions (e.g. PVC): PVC, plasticisers (i.e. DOP) stabilizers, etc.
  (It is incorrect to insert elements like C, H Cl.)

It is very important to insert a material below every component or semicomponent.

- An MDS with Basic Substances inserted directly under the component/assembly level will not be accepted.
The following search options are available when the user is in the “Create” option:

- **Material Search** - Available when creating a component or a semi-component.
- **Basic Substance Search** - Available when creating a component, semicomponent or a material.
In IMDS, an electronic component must be declared in the following way:

- All subcomponents should be inserted. However, when subcomponents have similar composition (e.g. resistors, lead solder), one “typical” composition may be inserted for all similar subcomponents. The total weight of all of the combined subcomponents in the part should then be entered (e.g. each resistor or lead solder point does not have to be specified separately).

- All of the materials used in each of the subcomponents or group of sub components have to be inserted.

- All of the substances contained in each material have to be inserted, not only the restricted substances according to GMW3059 and Normative no. 9.01102 (see p.12).

- Note: An MDS with Basic Substances inserted directly under the component/assembly level will not be accepted.
Here the recipient data must be inserted.

When sending MDS’s to GM/Fiat:

1) The GM-part no. of the part/assembly is to be input. For Fiat; the drawing number.
2) Input the official English name of the part.
3) Input the GM/Fiat-drawing number, if available. (The drawing number may be different than the part number.)
4) Input the date of release of the current revision of the drawing.
5) Input the current version/level of the drawing.
6) Input the supplier code, for:
   GM: DUNS-no
   Fiat: Supplier code.
Recipient – Where to send MDS’s

Material Data Sheets can be:
- Send - When there is one only recipient.
- Propose - When there are many recipients.
- Internal - For internal use.
- Publish - When the Data Sheet has to visible for everybody
  - useful to insert new materials.

Sending Material Data Sheets to GM/Fiat:

New parts/ parts under development/ parts (older) that already
has passed PPAP:
- Send the MDS to the division of GM or Fiat that is/was responsible for
PPAP, even if the part will be/is used by other divisions within GM or
Fiat.
(Example: If Saab is responsible for PPAP and the part will be/is used
by both Saab and Opel, the MDS shall be sent only to the Saab account
in IMDS.)
**Final check:**

- Before sending an MDS, the system executes a check of the correctness and thoroughness of the input data. The system will check to make sure that all mass information balances at every level of the MDS.

- It is possible to execute an immediate check of the input data by using the following menu:

  ![Password: disability]

  **Password: disability**

  - After three attempts of typing a wrong password the system disables it. Contact EDS Help desk to reactive your password.

  - Make sure to use the menu options within the IMDS. Closing a window incorrectly in IMDS may lock you out of the system for a period of time.
Contacts – GM/ Fiat

• Opel:
  • Antje Heymann  
    Adam Opel AG  
    TEZ T&V Zentrallabor  
    Spezifikationszentrum  
    IPC 85-70  
    D-65423 Rüsselsheim  
    Germany  
    Phone: +49-6142-7-71710  
    Fax: +49-6142-7-61745  
    E-mail: antje.heymann@de.opel.com

  • Dr. Ralf Langendorf  
    Adam Opel AG  
    ITEZ T&V Zentrallabor Organische Werkstoffe  
    D-65423 Rüsselsheim  
    Germany  
    Phone: + 49-6142-7-766268  
    Fax: + 49-6142-7-74484  
    E-mail: ralf.langendorf@de.opel.com

• Vauxhall:
  • Peter Stoker or Peter Woodcock,  
    Special Studies,  
    Vauxhall Engineering Centre,  
    Station Lane, Millbrook  
    Bedford, MK45 2YL  
    England  
    Phone: +44 1525 842519  
    Fax: +44 1525 842501  
    E-mail: peter.stoker@vecuk.co.uk
Contacts – GM/ Fiat

**SAAB**

- **Marilis Lepik**  
  Environmental Concerns Materials  
  A16-1 TVLE  
  Saab Automobile AB  
  SE-461 80 Trollhättan  
  Sweden  
  Phone: +46 (0)520 852 06  
  Fax: +46 (0)520 781 50  
  E-mail: marilis.lepik@saab.com

- **Karin Andersson**  
  Environmental Concerns Materials  
  A16-1 TVLE  
  Saab Automobile AB  
  SE-461 80 Trollhättan  
  Sweden  
  Phone: +46 (0)520 2 794 13  
  Fax: +46 (0)520 781 50  
  E-mail: karin.andersson@saab.com

**Fiat:**

- **Claudia Berruti**  
  Fiat Auto S.p.A.  
  D.I.P.-Laboratories  
  Materials Engineering  
  C.so Settembrini, 40 - 10135 Turin  
  Italy  
  Phone: + 39 11 6835564  
  Fax: + 39 11 6838092  
  E-mail: claudia.berruti@fiat.com

- **Riccardo Boggio**  
  Fiat Auto S.p.A.  
  D.I.P.-Laboratories  
  Materials Engineering  
  C.so Settembrini, 40 - 10135 Turin  
  Italy  
  Phone: + 39 11 6835714  
  Fax: + 39 11 6838092  
  E-mail: riccardo.boggio@fiat.com
Contacts – GM/ Fiat

• GM North America:
  • Dianne Boss
    General Motors Corporation
    Design for the Environment
    MC 483-523-3B4
    Pontiac Product Center- Central
    2000 Centerpoint Pky.
    Pontiac, MI 48341-3147
    USA
    Phone: +1 248-753-0219
    Fax: +1 248-753-0269
    E-mail: Dianne.Boss@gm.com
  • Doris Hill
    General Motors Corporation
    Design for the Environment
    MC 485-303-811
    4100 South Saginaw
    Flint, MI 48557
    USA
    Phone: +1 810-236-2653
    Fax: +1 810-236-1344
    E-mail: doris.l.hill@gm.com
  • Edward Becker
    General Motors Corporation- Powertrain
    Materials Engineering
    MC 483-710-251
    895 Joslyn Ave.
    Pontiac, MI 48340
    USA
    Phone: +1 248-857-2129
    Fax: +1 248-857-2599
    E-mail: edward.p.becker@gm.com