



Create Tips - Materials



This series of presentations gives a recommended step-by-step procedure for creating MDSs in the IMDS system.

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

Or specific product recommendations found after login on: Recommendation

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



 Originally, the create tips gave information on materials, components, and semi-components.
 However, by popular demand, the one large document has been divided into smaller documents for ease of use. This is the largest document because the rules and requirements are more complex for materials than for components and semi-components.





- Basic MDS Structure
- <u>Recommendations</u>
- Searching for Materials
- <u>Creating a Material</u>
 - Standard Material Number
 - Norms/Standards
 - Basic Substances Searching
 - Errors/Warnings
 - Basic Substance Display
 - Supplier Information
 - Releasing
- Special Materials and Symbols
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Click on link to go directly to that section

Basic MDS Structure



Note - The requirement is to reduce all parts to Basic Substances.

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



Where To Find Recommendations

• The Recommendation link will bring up a screen similar to the following

- IMDS 001 is what is commonly referred to as **Recommendation 001**
- You should check this screen once a month for changes

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While you can create Components and Semi-Components (if used) within the ingredients tree, Materials must be created separately. It is strongly suggested that you get your materials into the system first. You have three choices for getting material information into IMDS:

- Use published materials (use at own risk if not entered by manufacturer of materials or IMDS Committee - anyone can publish and there is no quality check)
- Have your supplier input material MDS and send it to you (best if you have time and a cooperative supplier)
- Build the material tree yourself and internally release (time consuming and you may not have information)



- The first question to ask is "Do I have to create a Material?"
 - If your material is published to a public norm or standard then most OEMs would prefer that you use an IMDS-Committee Published Material
- Do you manufacture the material?
 - If you do not manufacture the material then you should require your supplier to enter the data and either send or propose it to you. If you cannot get your supplier to enter the data – they must send you the breakdown of the product – ALL substances – a MSDS sheet does NOT contain sufficient information to create a material.
 - Reminder, *if you create the material MDS then you are* considered legally responsible for the validity of the data. We recommend that if you don't manufacture the material, then you don't create the MDS.
- Is the material already in IMDS either created by my company, my supplier, or IMDS-Committee
 - The next section will give you some searching tips





How to Search for a Material



Haterial Search Tips

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



Filters – Ingredients Page Filters

- Meria		Starun
- Search	Component	Semicompon • Material All MDS/Modules
	Name:	Language: English German
	Internal MatNo.:	Development Sample Report:
	ID-No.:	Current versions 🗸

- Name the description given on the Ingredients page if your company created it or you are searching in Published data. The description
 from the Recipient Data page if it was sent/proposed to your company. Note: if you cannot find the MDS, you may want to do a wild
 card search as there must be an EXACT match to display and leading spaces may be an issue. The search is not case
 sensitive.
- Internal Mat.-No.. the Internal Mat.-No from the Ingredients page if your company created it or you are searching in Published data. The information from the Recipient Data page if it was sent/proposed to your company. Note: if you cannot find the MDS, you may want to do a wild card search as there must be an EXACT match to display and leading spaces may be an issue.
- ID-No. the IMDS ID number
- Language whether you are searching for data in the English fields or German fields
- Version
 - Current the highest version number or all the versions in edit mode if your company created it. The highest version number that you have visibility to if another company created it warning if your supplier uses the practice of creating a copy/new version every time they send to another company, you may not have visibility to the latest version of the MDS and will need to use All Versions.
 - All Versions All versions of the ID.
- Development Sample Report If checked, will only return MDSs where the Development Sample Report box has been checked on the Ingredients page
- Note: The BEST way to find anything in IMDS is by IMDS ID. You must also be looking in the right place -
 - Was it created by your company or another
 - If you cannot find with current versions, try All versions
 - Use Wild card searches e.g. if looking for published SAE 1010 steel, use *1010 in the Name field





Date:	🗖 published / accepted / internally rel	or 🛛 🗖 created (own MD
(only for MDSs)	from: 03/26/2007 to: 04/26/2007	(MM/DD/YYYY)

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



Filters – Supplier MDSs

Supplier MDSs:	🗹 accepte	d MDSs 🛛 🗹 published MDSs	
	Supplier:	ILI [4844] IMDS-Committee / ILI Metals [5203]	
	🗖 all	Stahl und Eisen Liste [1038]	🔽 save list
- NOO NA 11			

- You can limit your search to supplier data to data from a select list. By default, for materials, only IMDS-Committee materials will be returned.
 - Accepted MDSs return only data that has been accepted by my company
 - Published MDSs return only data that has been published
 - All selecting this will search all suppliers not just those on the list
 - Supplier List restrict search returns to the suppliers listed. Material searches will automatically have the 3 IMDS-Committee companies listed (see next page for how to add/remove suppliers and a more complete discussion of how this works)
 - Save List saves the supplier list for future sessions this list is saved to the login ID
- Note: when searching on Published materials, your supplier list will be supplemented by the IMDS-Committee materials. If you want these on the other tabs, you will have to customize your list.
- Additional note the "save list" from the search screen is also attached to the Receive screen allowing a company to have users focused on certain suppliers. There is a 2nd "save list" available on the Sent screen.
- IF YOU DO NOT CHECK THE ALL BOX, ONLY THOSE DATASHEETS CREATED BY THE COMPANIES LISTED WILL BE RETURNED!!!!





Filters – Supplier List – Add

Supplier MDSs:	🗹 accepted	MDSs	🗹 published MDSs	🗿 Company - Microsoft	Internet Expl	lorer provided by EDS	COE	×
	Supplier: IMDS-Committee [423] IMDS-Committee / ILI Metals [18986] all Stahl und Eisen Liste [313]		Company Search Criteria:			,	Administration ─→ Company ─→ Search	
						Company	OrgUnit	
				Company Name:			Company-ID:	
				zip code: User Name:			City: User ID.	2 DUNS in the format 99-999-9999
								Search Cancel

• To add a supplier to the customized list, click on the



- A search screen will appear where you can either search on a Company or an Org Unit
- After a search, you select your supplier and hit apply in this case, I have added EDS (IMDS Boarding) to my list (note – the company numbers displayed are not from the production system.
- Multiple suppliers may be selected to apply at one time if click individually on the desired companies or Org Units and then click on Apply.

Supplier MDSs:	✓ accepted	MDSs	Dublished MDSs		
	Supplier:	EDS (IMDS B) IMDS-Commi	oarding) [7340] ttee [423]		
	all	IMDS-Commi	nmittee / ILI Metals (18986) 💌		✓ save list



Supplier MDSs:	🗹 accepted	MDSs	✓ published MDSs		
	Supplier:	EDS (IMDS Boarding) [7340] IMDS-Committee [423]			
	□all	IMDS-Commi	ttee / ILI Metals [18986] [×	🗹 save list

- To remove a supplier from the customized list, first highlight the supplier to remove (EDS (IMDS Boarding) above) and then click on the
- The results would be similar to below on the materials tab

Supplier MDSs:	🗹 accepted	MDSs	✓ published MDSs		
	Supplier:	IMDS-Commi IMDS-Commi	ttee [423] ittee / ILI Metals [18986]	-	
	all	Stahl und Eis	en Liste (313)		✓ save list



Own MDSs/Modules: 🗖 own MDSs	🗖 own Modules	
Assigned OrgUnit:	T	(only for MDSs)
Assigned Contact:	•	(only for MDSs)
	Iast edited by me	

- Own MDSs the search results will only return MDSs and not modules
- Own Modules the search results will only return modules and not MDSs
- Assigned Org.-Unit the search result will be limited to MDSs assigned to a particular Organizational Unit
- Assigned Contact the search result will be limited to MDSs with the contact person as selected
- Last edited by me the search result will be limited to those MDSs or Modules last edited by the user ID currently logged in
- Note The Contacts are from a pull-down list modified by the client manager under Administration > Contact Person



Own MDSs/Modules: 🗖 own MDSs	🗖 own Modules	
Assigned OrgUnit:	T	(only for MDSs)
Assigned Contact:	•	(only for MDSs)
	Iast edited by me	

- Own MDSs the search results will only return MDSs and not modules
- Own Modules the search results will only return modules and not MDSs
- Assigned Org.-Unit the search result will be limited to MDSs assigned to a particular Organizational Unit
- Assigned Contact the search result will be limited to MDSs with the contact person as selected
- Last edited by me the search result will be limited to those MDSs or Modules last edited by the user ID currently logged in
- Note The Contacts are from a pull-down list modified by the client manager under Administration > Contact Person



Trade name:	Norm/Standard:	
Std. MatNo.:	Classification:	
Symbol		

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









MATERIAL DATA

Searching for Published Materials



Searching for Published Materials (ID Not Known)

INTERNATIONAL





Searching for IMDS Committee Published Materials

INTERNATIONAL

- The IMDS Steering Committee has published MDSs that comply with a material standard and many companies prefer that you use this data instead of creating your own. If you want a material standard published, send to the helpdesk and we will try to add. Not all standards contain a complete list of substances. We can only publish if the standard includes substances that sum to 100%. These have been added to your saved company list when searching for materials. A list of Public Norms can be found Public Pages > FAQ > General Info > What do the Norms/Standards acronyms mean?
- Guide to the IMDS Steering Committee Published Materials:
 - Stahl und Eisen Liste (313) predominantly steels and steel alloys no norm/standard on most of them but contain a material number of form 1.nnnn where nnnn is a 4 digit number.
 - IMDS-Committee (423) coatings and alloys and also some semi-components
 - IMDS-Committee / ILI Metals (18986) steels published to other standards not in the Stahl und Eisen Liste.
- The IMDS Committee metal materials have usually been entered with either the UNS number or the JIS number as the standard material number. It is suggested that you perform a wildcard search on the standard material number (i.e. *10211 in the Std. Mat. No field as it may have been entered as G10211 or G 10211).
- The IMDS Committee materials in material classifications 1-5, with very few exceptions, have been entered with the public norm. It is suggested that you perform a wildcard search on the norm (i.e. select norm ASTM and *32 as it may have been entered as B32 or B 32)
- Since IMDS Committee materials are undergoing cleanup of duplicate data, it is suggested that you
 get in the habit of performing a search each time on the norm or standard material number instead
 of relying on an MDS ID.











Before You Begin – Must Have Data

- The following information will be required for you to complete data entry:
 - Know a **minimum** of 90% of the substances in the material
 - Material Classification
 - Applicable Public Norms/Standards
 - Applicable OEM In-House Norms
 - Applicable Material Symbols
 - Any special customer requirements
 - Recommendation 001 and any other Recommendation pertaining to the product
- An MSDS sheet <u>does not</u> contain sufficient information to enter the material.
- Materials are best entered by someone with a chemical or materials background.
- Report only materials in their final state with the exception of classification 9.x and hides (7.1), the final state usually does not include gases or liquids. If you include liquids or gases in anything apart from 9.X or 7.1, be prepared to defend your submission.
- It is extremely rare (although not unheard of) to have a material composed of only one substance. If you use such a construct in your submission, be prepared to defend it.



INTERNATIONAL

MATERIAL DATA

MDS or Module?















- Most materials follow the same path in creation there are additional requirements for the following "Special Material" types:
 - Filled Thermoplastics
 - Unfilled Thermoplastics
 - Thermoplastic Elastomers
 - Elastomers / elastomeric compounds



 At this point, we are assuming that you have already checked to see if the material exists and it doesn't

Material"

 Select a material classification (you only can select underlined classifications)

5.1.a, 5.1.b, 5.2 and 5.3 have a wizard so we'll do those later

Once the selection is made, click Next

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Module		If you are unsui	re about that, i	iere you c	an jump to t	ine materia	al search.				
		First of all, plea	se select the n	naterial cla	essification:						
		Classification	Descriptio	n							
		2.2	Magnesium	<u>n and mag</u>	<u>nesium allo</u> y	<u>/S</u>					~
- Log off		2.2.1	<u>Cast magn</u>	esium allo	<u>ys</u>						
-		2.2.2	<u>Wrought m</u>	<u>agnesium</u>	<u>alloys</u>						
		2.3	<u>Titanium a</u>	<u>nd titanium</u>	<u>n alloys</u>						
		3	Heavy met	als, cast ai	nd wrought	alloys					
		3.1	Copper (e.	<u>g. copper</u>	amounts in	<u>cable harr</u>	<u>nesses)</u>				
		3.2	Copper allo	<u>oys</u>							=
		3.3	Zinc alloys								_
		3.4	Nickel alloy	<u>'S</u>							
		3.5	Lead								_
		4	Special me	tals							
		4.1	Platinum /	<u>noaium</u>							_
		4.Z	Other spec	<u>ial metals</u>							
		0 5 1	Thermonia	atenais							
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		5.2	Thermonia	stic elasto	mers						
			<u></u>								⊻
		Cancel									Next

This is a material is for illustrative purposes only – do not copy.



Create a Material – Not "Special

Specifics on Material Checks – substances

Classification	Classification name:	Must contain:
number:		
1	Steel and iron materials	
1.1	Steels / cast steel / sintered steel	Fe ≥ 50%
1.1.1	unalloyed, low alloyed	Fe ≥ 65%
1.1.2	highly alloyed	Fe ≥ 30%
1.2	Cast iron	Fe ≥ 50%
1.2.1	Cast iron with lamellar graphite / tempered cast iron	Fe ≥ 70%
1.2.2	Cast iron with nodular graphite / vermicular cast iron	Fe ≥ 55%
1.2.3	Highly alloyed cast iron	Fe ≥ 14%
2.1	Aluminum and aluminum alloys	AI ≥ 50%
2.1.1	Cast aluminum alloys	AI ≥ 50%
2.1.2	Wrought aluminum alloys	AI ≥ 50%
2.2	Magnesium and magnesium alloys	Sum of Mg and Magnesium powder (stabilized) ≥ 50%
2.2.1	Cast magnesium alloys	Sum of Mg and Magnesium powder (stabilized) ≥ 50%
2.2.2	Wrought magnesium alloys	Sum of Mg and Magnesium powder (stabilized) ≥ 50%
2.3	Titanium and titanium alloys	Ti ≥ 50%
3	Hea∨y metals, cast and wrought alloys	
3.1	Copper (e.g. copper amounts in cable harnesses)	Cu ≥ 93%
3.2	Copperalloys	Cu ≥ 48%
3.3	Zincalloys	Sum of Zinc substances ≥ 70%
3.4	Nickel alloys	Ni ≥ 50%
3.5	Lead	Pb ≥ 50%
4	Special metals	
4.1	Platinum / rhodium	Sum of Platinum and Rhodium \geq 50%
4.2	Other special metals	Other special metals or their sum \geq 50 %



Specifics on Material Checks – Polymers & Lacquers

INTERNATIONAL MATERIAL DATA

Classificati	Classification Name	Must Contain	Must not Contain
on Number			
5	Polymer materials		
5.1	Thermoplastics		
5.1.a	filled Thermoplastics	Sum of substances containingpoly in their names excluding	-
5.1.b	unfilled Thermoplastics	Sum of substances containingpolyin their names excluding sum of Basic Duromers ≥ 25%	-
5.2	Thermoplastic elastomers	Sum of substances containingpolyin their names excluding sum of Basic Duromers ≥ 25%	-
5.3	Elastomers / elastomeric compounds	Sum of Basic Rubbers or substances containing …poly… in their names excluding Basic Polymers and Basic Duromers and ≥ 10%	-
5.4	Duromers	Sum of substances containingpoly in their names excluding sum of Basic Polymers ≥ 15%	-
5.4.1	Polyurethane	Sum of substances containingpoly in their names $\geq 25\%$	-
5.4.2	Unsaturated polyester	Sum of substances containingpoly in their names excluding sum of Basic Polymers $\geq 15\%$	-
5.4.3	Other duromers	Sum of substances containingpoly in their names excluding sum of Basic Polymers $\geq 15\%$	-
5.5	Polymeric compounds (e.g. inseparable laminated trim parts)		
5.5.1	Plastics (in polymeric compounds)	Sum of substances containingpoly in their names $\geq 25\%$	-
5.5.2	Textiles (in polymeric compounds)	-	Sum of Substances in classes 1-4 ≥ 50%
6	Process polymers		
6.1	Lacquers	Sum of Basic Duromer or …poly… ≥25%	-



Specifics on Material Checks – Other Classifications

Classification	Classification Name	Must not Contain			
6	Process polymers				
6.2	Adhesives, sealants	Sum of substances fitting classifications $1-4 \ge 90$ %			
6.3	Underseal	Sum of substances fitting classifications $1-4 \ge 50$ %			
7	Other materials and material compounds (scope of mixture)				
7.1	Modified organic natural materials (e.g. leather, wood, cardboard, c	Sum of substances fitting classifications $1-6 \ge 50 \%$			
7.2	Ceramics / glass	Sum of substances fitting classifications $1-4 \ge 80$ %			
9	Fuels and auxiliary means				
9.1	Fuels	Sum of substances fitting classifications $1-6 \ge 50$ %			
9.2	Lubricants	Sum of substances fitting classifications $1-4 \ge 50$ %			
9.3	Brake fluid	Sum of substances fitting classifications $1-4 \ge 50$ %			
9.4	Coolant / other glycols	Sum of substances fitting classifications $1-4 \ge 50$ %			
9.5	Refrigerant	Sum of substances fitting classifications $1-6 \ge 50$ %			
9.6	Washing water, battery acids	Sum of substances fitting classifications $1-6 \ge 50$ %			
9.7	Preservative	Sum of substances fitting classifications $1-4 \ge 50$ %			
9.8	Other fuels and auxiliary means	Sum of substances fitting classifications $1-4 \ge 50$ %			



Supply Identification

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Create MDS Facyclate Information Supplier data Recipient data	Mate	⊡*	GADSL	~	Details Type ID / Version MDS Supplier Name Trade name Internal MatNo Std. MatNo. Symbol Classification	Material (MDS) 900000420 / 0. EDS (RMC Tro / toxic demo ma	Second Se	
You CA default i 586793 created finding I	NNOT name - MDS th - not us ater	take the this is th nat's bee seful for	e en		Norms/ Standards Inhouse Norms Supplier Remark Development Sample Report		(EN)	Jearch
				ch	Classifica carried ov change w button	ition selec /er, but yc /ith Searc	ction is ou can h	Next

Select from the following to see a discussion

- -<u>Name</u>
- Trade name
- Internal Mat.-No.
- Std. Mat.-No.
- Norms/Standards
- Inhouse Norms



Caution About Names/Trade Names

- Materials are multi-lingual. Normally, you will fill in the English and hit save, IMDS will note that the German (DE) is blank and copy the English into the German.
- If you change the Name or Trade Name after the save, the English
 WILL NOT be copied to the German.
 When you do your search, you will have 2 different items in the results.
- Solution when you change the Name or Trade name, use the pulldown to DE and delete whatever is there, then save and the English will be copied to the German.











- The material name must always define the material and not be a trade name.
- If applicable, material names need to reflect the existing standards
 - For metallic materials:
 - steel Steel / Iron List, EN 10027, JIS norms, e.g. STM-C 540
 - aluminium alloys EN 573, JIS norms, e.g. Al-Si12
 - copper alloys ISO norms, e.g. CuAl5
 - etc.
 - For plastics ISO 1043-1 to 4 (see IMDS 010), e.G. Pe-ld
 - For elastomers ISO 1629 (see IMDS 003), e.G. Acm
 - For thermoplastic elastomers ISO 18064 (see IMDS 013), e.G. Tpa-es
- If no standard is applicable, the name must be descriptive such as:
 - adhesive layer (for adhesives)
 - fatting agent (e.g. for leather)
 - finish (e.g. for textiles)
 - lamination material (e.g. laminate for textiles)
 - primer, basecoat, clearcoat (for paints)
- The name must be entered in English in the EN field. The name in other langua optional.



 Product trade name. For standard products which are defined in public norms (e.g. most metallic materials), this entry is not mandatory. In drawings these trade names sometimes are pre-defined. Then the entry is mandatory. For materials which are not defined in public norms (e.g. plastic materials, oils, fats, flake layers, glue etc.) this entry is not mandatory but useful in order to uniquely identify the product.







 The number or code that you refer to the material as. This is for YOUR use and your customer should not have any requirement on how you use this field. This entry is not mandatory. This is NOT the same as the standard material number.






- Standard Material Number <u>not all materials have a</u> <u>standard material number</u> and the field is available only for the metallic classifications. Not all metals are manufactured to a standard. Unfortunately, there is no one right answer to the number that should be placed here as different regions have different numbering systems. However, one of the following two is preferred (although a case may be made for VDeH, EN or DIN)
 - UNS (Unified Numbering System Metals and Alloys) and most of the IMDS Committee materials were entered with this number
 - Japanese standard is the JIS





Norms and Standards

- Norms and standards refer to public norms in which material compositions are defined (e.g. EN, DIN, JIS, ASTM, ISO etc.).
- For materials described in these norms an entry is mandatory. Not all materials are manufactured to a Public Norm
- Now to Norms, if there are any, click on +
- Only OEMs have Inhouse Norms - some suppliers manufactured to an OEM norm.

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					Std. MatNo.		
– Log off					Symbol		
					Classification	Other special me	etals Search
					Norms/ Standards		
					Inhouse		+ -
					Norms		
					Supplier		
					Remark		(EN
					De∨elopment Sample Report		
			Tree se	earch		F	Find Norms

Note: NOT ALL MATERIALS ARE MANUFACTURED TO A NORM. IF MANUFACTURED TO A NORM, YOU MUST INCLUDE IT. IF THERE IS NO NORM, YOU CANNOT INCLUDE IT.



Add Norms

- Depending on what you select on the left window, the right window will change
- Select from the right window and enter the code
- Click on Apply
- Inhouse norms are added the same way but appear in the lower box

About in house Norms – they are only visible to the MDS creating company and the OEM whose norm they are. Everyone else in the supply chain will not see them. Suppliers who copy instead of reference the MDS sent to them will not know that a material has been made to an OEM norm.

🗿 select norm - Mi	crosoft Internet Explor	er provided by EDS COE
MDS Material_509692 50	09692 / 0.01	→ Material → select norm
public norms BMW DaimlerChrysle Ford Motor Co Adam Opel AG Volkswagen Ad Toyota Motor o SUZUKI MOTO sup12 car1	er AG ompany G Corporation R CORPO	PREN QQ SAE SAE AMS SE SEW SIS SS SS EN SS EN SS EN ISO
o tho		
o the norm they t see the MDS been	Apply	Back



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- Inhouse norms can only be seen by users in the creating IMDS company and the OEM who's norm it is (specific to IMDS company ID).
- In this example, Adam Opel GmbH uses inhouse norms, but that inhouse norm would only be visible to users in company 104 and not visible if the same material were used on a part sent to other General Motors companies or any supplier.

🚰 norm frame - Microsoft Internet Explorer pro	ovided by EDS COE	
MDS Copy_Carpet Backing_25280 70308660 / 0.01	→ Material → Se	elect norm
Ssangyong Motor Compa Daimler AG SUZUKI MOTOR CORPO Adam Opel GmbH Mazda Motor Corporation GM Daewoo Auto & Tech Fuji Heavy Industries, Ltd HYUNDAI MOTOR COMP Daihatsu Motor Co., Ltd. Volkswagen AG	EMS GM GME GMI GMVV HN ISA ISC ISD ISC	×
Code:		
Apply	Back	



Haterial Supplier

- Tthis is a totally fictional material, but we'll pretend it is to a public norm.
- Enter your supplier information if required or desired
- Click on Save





Remark

- The Norm has been applied repeat if there are any more
- Enter any pertinent remarks
- Click on Save





Development Sample Report

- This box is to be checked if the material you are reporting is preproduction.
- Click on Save

probably reject the submission.



INTERNATIONAL MATERIAL DATA



 You can add Materials or Basic Substance - in this case, click on the <u>+</u>





MATERIAL DATA





About Basic Substances

- ONLY SUBSTANCES EXPECTED TO BE FOUND ON THE VEHICLE AT IT'S END OF LIFE ARE TO INCLUDED IN THE INGREDIENTS. The same philosophy guides the GADSL list (Global Automotive Declarable Substance List – <u>www.gadsl.org</u>) You will not find processing chemicals on the GADSL although some of them may be harmful.
- Neither IMDS nor the GADSL is an exhaustive list with 100,000s of chemicals, it is impossible to list every CAS number. If a CAS number doesn't appear on the GADSL does not mean it is not declarable/prohibited as the GADSL really is the category list and the reference list is just that – a reference. the GADSL is only updated once a year. IMDS can be updated based on a user request to the helpdesk.
- Before asking the helpdesk to add a CAS number, please run it through the CAS number check (at least 50% of the requests the helpdesks get have an incorrect CAS number) - <u>http://www.cas.org/expertise/cascontent/registry/checkdig.html</u>
- Not every substance with a CAS number is considered a basic substance in IMDS terms. There are alloys or "groups" that have been assigned a CAS number.
- Because the IMDS substance list is a validated list that has been developed over the years at a cost, it is NOT available for download and Use Conditions prohibit the use of the list in 3rd party software except where an agreement exists between the vendor and IMDS.



- Best to use CAS number if it isn't in the system, send an email to the helpdesk and ask that it be added
 - When the substance is added or the request is rejected, the helpdesk will notify the user
- This is a European system and there are European spellings aluminium vs aluminum, sulphur vs sulfur, etc.
- Wild cards (*), partial names, etc. may also be useful
 - *resin will return all resins
 - Silicone will return all substances starting with silicone
 - *fibre will return Pseudo-substances that are usually used as fillers or natural occurring substances
 - Basic duromer, basic elastomer, basic oil, Thermoplastic elastomer and basic rubber will return pseudo-substances in those categories
- A **Pseudo-Substance** gives an accurate description of the substance or the substance group but does not have a CAS-No. It is important to point out that these substances are accepted as real substances in IMDS and are not considered as wildcards. They are therefore allowed to be used within the 90% disclosure rule according to the IMDS Recommendation 001. If the substance exists as a Pseudo-substance in IMDS, it will not be added as a substance with a CAS number.









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- A Pseudo Substance has a in the CAS number field. Pseudo substances can be used up to 100% of a material however, it is doubtful that any material would be made of 100% of any substance or else you would be supplying a basic substance and if that is the case, you should not have to enter into IMDS.
- Since search results are limited to 500 returns, it is not possible to look at a complete list of Pseudo Substances in the system. You will need to enter some information in the name field to find the type of Pseudo Substance you are looking for – for example:
 - Basic Duromer many of these are resins
 - Basic Oil limited list of oils because many oils are PAHs, you will usually have to search by CAS number
 - Basic Polymer many are ISO 1043 substances you could also search on polymer name (e.g. *PA6, *EMAK, *FEP, etc.)
 - Basic Rubber again you could either look through the entire list or enter the name in the field a wildcard search works best (e.g. *ABR, *XCR, etc.)
 - Plasticizer best to do a wildcard search e.g. enter *plasticizer in the name field
 - Flame Retardant several undeclarable/non-prohibited can be found by entering *1043-4 in the name field
 - Man-made fibers can be found by entering Man-made in the name field
 - Natural fibers such as wool and hair can be found by entering Natural in the name field
 - Thermoplastic Elastomers can be found by entering Thermoplastic in the name field or by more specific searches on the name (e.g. *TPC, *TPV, etc.)
 - Soaps and other Thickeners can be found by entering Thickener in the name field
 - Some other fillers can be found by entering the ISO 1043-2 description (e.g. MD for Mineral Powder). You
 might also try entering *1043-2 in the name field to find the fillers used in Thermoplastics.
 - Resins are frequently found by entering *resin in the name field
- The above does not contain an exhaustive list, but guidelines on how to structure your search for pseudo substances.





Jokers/Wildcards

- You may use jokers/wildcards in your structure if BOTH of the following conditions are true:
 - The substance being replaced is not declarable or prohibited
 - The TOTAL of all undeclared substances (substances marked confidential or joker/wildcard) is a MAXIMUM of 10% - except where exemption is given in a Recommendation
- Jokers/Wildcards have the CAS number system and there are only 9 of them in IMDS:

🔁 MD	S, Module and Substance searc	h - extended - I	Microsoft Intern	net Explorer pr	ovided by EDS	
M)S and Module Search					
						¬ → Search
Sea	rch Criteria: CAS No.=system					
9 ite	ms found. Ordered ascending	by "Name"				
No.	<u>Name</u>	CAS No.	EU-Index	Einecs-No.	<u>Synonym</u>	<u>GAD</u>
1	Flame Retardant, not to de	system	system	system	-	-
2	Further Additives, not to de	system	system	system	Additives, not	-
3	Impact modifier, not to decl	system	system	system	-	-
4	Inorganic Ingredient, not to	system	system	system	Mineral Mater	-
5	Misc., not to declare	system	system	system	Miscellaneous	-
6	not yet specified, not to dec	system	system	system	-	-
7	Organic Ingredient, not to d	system	system	system	Natural Ingre	-
8	Pigment portion, not to decl	system	system	system	colorant, not t	-
9	Plasticizer, not to declare	system	system	system	-	-
	Apply View Clipbo	pard		N	lew Search Ca	incel



Find First Substance

 Enter the entire compound, or a shortened version of it, or the CAS number and click on Search

Search hint: Sometimes less is more - the more filters you fill in, the more it has to match and the search may come back unsuccessful.

MDS, Module and Substance search - extended - Microsoft Internet Explorer provided by EDS
MDS and Module Search
──→ Searc
Component Semicompon All MDS/Modules
Name / Synonym: nickel
CAS No.:
EU-Index:
Einecs-No.:
Group:
GADSL category duty-to-declare: O Yes O No O N.A.
prohibited: O Yes O No O N.A.
REACH-SVHC. O Yes O NO O N.A.
Search Cancer
This material will primarily consist of substances that
are declarable, prohibited, REACH SVHC, or require
an application code to illustrate functions of IMDS – th
is not a real material
15 HUL a Teal Malemai.



Add First Substance

 Scroll down the list until you find the Basic Substance and click Apply

Basic substance addition - If you don't find your substance and have the CAS number, email the help desk with all the relevant information to have it added.

省 MD	S, Module and Substance searc	h - extended - <i>l</i>	Aicrosoft Intern	et Explorer pr	ovided by EDS						
M	S and Module Search										
IVIL	of and module Search										
Soo	reh Critoria: Nama-pickal										
30a 549	Search Unteria: Name=nickel										
04 II	Name	y by "Name"	Ellindey	Eineac No	Synonym						
1	2.4-Pentanedione_nickel(II)	3264_82_2	<u>E0-IIIdex</u>	201_875_7	Nickel his(2	D D					
2	2.4-Pentanedione_nickel(II)	3264-82-2	[221-075-7	Nickelous ace						
3	Antimony nickel titanium ovi	8007-18-9	[221-070-7	Nickel-Titaniu						
4	Bis(diethy/dithiocarbamato-	14267-17-5	_	238-157-4	Nickel his(die	D					
5	Bis(diisobuty/dithiocarbamat	15317-78-9	-	239-354-8	Nickel diisobu	D					
6	Bis(eta5-2 4-cyclopentadie	1271-28-9	-	215-039-0	Nickel, compo	D					
7	Bis(eta5-2.4-cyclopentadie	1271-28-9	_	215-039-0	Nickelocene	D					
8	Bis[2,3-bis(hvdroxvimino)-N	29204-84-0	-	249-503-9	Nickel, bis[2.3	.D					
9	Dinickel-trioxide	1314-06-3	028-005-00-3	215-217-8	Nickel (III) oxide	D					
10	Dinickel-trioxide	1314-06-3	028-005-00-3	215-217-8	Nickel sesqui	D					
11	Iron nickel zinc oxide	12645-50-0	-	-	Nickel zinc fer	D					
12	Iron nickel zinc oxide	12645-50-0	-	-	Nickel zinc fer	D					
13	<u>Nickel</u>	7440-02-0	028-002-00-7	231-111-4	Ni	D					
14	Nickel acetate tetrahydrate	6018-89-9	-	-	Acetic acid, ni	.D					
15	Nickel bis(dibutyldithiocarba	13927-77-0	-	237-696-2	-	D					
16	Nickel bis(dihydrogen phos	18718-11-1	-	242-522-3	-	D					
17	Nickel bis(dimethyldithiocar	15521-65-0	-	239-560-8	Nickel dimeth	D					
18	Nickel bis(dimethyldithiocar	15521-65-0	-	239-560-8	Nickel, bis(di	D					
19	Nickel bis(sulphamidate)	13770-89-3	-	237-396-1	Nickel sulfam	D					
20	<u>Nickel cyanide</u>	557-19-7	-	209-160-8	Nickel dicyani	D					
21	<u>Nickel di(acetate)</u>	373-02-4	-	206-761-7	Acetic acid, ni	.D					
22	Nickel di(acetate)	373-02-4	-	206-761-7	Nickel(II) acet	D					
23	<u>Nickel hydroxide</u>	11113-74-9	-	234-348-1	-	D					
	Apply View Clipbo	bard		N	ew Search 📃 Ca	ancel					
-				_							



Fill in First Substance %

 Now you need to add the Portion (in this case 5-10%).

If you go outside the Recommendation 001 ranges, you will get a **Warning: Range of portion may not exceed allowed percentage**. This is a warning and not an error and IMDS will allow you to send. However your customer may choose not to accept.

- Notice you can't go down the tree any further from a Basic Substance
- Click on the top of the tree (Test material) to add another substance.





Adding Materials No Longer Possible

 You are not allowed to mix materials and substances at the same level. Once you add a substance, the remainder of the material must also be substances.





INTERNATIONAL

MATERIAL DATA

Add Second Substance

 The second substance is lead.

In this case, we're using a range of 3-5%

Note – this formulation if for illustration only – DO NOT use it for your steel





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- To illustrate the different. color coding, several substances have been added.
- If the name of the substance is **blue**, the substance is D on the GADSL (www.gadsl.org).
- If the name of the substance is **red**, the substance is P or D/P on the GADSL.
- If the name of the substance is <u>underlined</u>, the substance is on the **REACH SVHC list** (Substance of Very High Concern).
- If none of the above, the substance is not flagged in any way.



Tree search

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

Adding Additional Substances – **Reading the tree**



→ MDS ⁻

(EN) 🔽

Search

+ -

(EN) 🔽

Create

→ Ingredients

Harking a Substance Confidential

- Since Sulfur (note UK vs US spelling) is not flagged, it is possible to mark it confidential.
- If you mark a substance confidential, only the following can see the substance:
 - All users in the MDS Creating company
 - Users in another IMDS company given specific access via Administration > Trust User





INTERNATIONAL

MATERIAL



- Periodically, you will want to Save. Certainly, when you have all the tree complete, be sure to Save.
- When you see the warning, you know that the system is copying the text from the English name field into the German.





Quick Error Check

- We're going to do a quick error check before going further.
- Click on the ✓ icon in the toolbar







- The first Error is because all of our % don't sum to 100 (for the from-to %, the midpoint is used). Some hardcopy datasheets only list the impurities and forget that main ingredient - in this case iron.
- The **Warning** is because the ranges selected for Nickel are wider that what is allowed in Recommendation 001 (found on the Recommendation link after login)
- The second Error is because I forgot to put how much Sulfur was there.
- You can highlight the problem and click Show and go directly to where the problem is, but for now, select **Cancel.**

🖀 Check - Microsoft Internet Explorer provided by EDS COE
Check Results → Check Results MDS: Highly toxic demo material 900000420 / 0.01
Error: Highly toxic demo material: Sum of fixed values and range values to Warning: Nickel: Range of portion may not exceed allowed percentage. Error: Sulfur, homopolymer: No percentage specified! Error: Highly toxic demo material: Contact must be specified
Double-click to jump to the error.
Error: Highly toxic demo material: Sum of fixed values and range values too small
All existing errors need to be eliminated before any further processing may take place.



Adding the Last Substance

- Sulfur has been given a % of 15%
- Iron has been added and Rest selected.
- The MDS has been saved and the system fills in the percentage – 70.5% iron.

Again - this formulation if for illustration only – DO NOT use it for your steel

 Now the error check again





Adding the Last Substance

- There's still an error but nothing on the ingredients page.
- The system will allow you to send or release with a warning – that is not to say that your customer will accept
- Click Cancel
- When the window closes, click **Next**

Check - Microsoft Internet Explorer provided by EDS COE
Check Results
→ Check Results MDS: Highly toxic demo material 900000420 / 0.01
Warning: Nickel: Range of portion may not exceed allowed percentage. Error: Highly toxic demo material: Contact must be specified
Double-click to jump to the error.
Warning: Nickel: Range of portion may not exceed allowed percentage.
All existing errors need to be eliminated before any further processing may take place. Show Check Cancel



Process Chemical Verification Flag

- Only substances existing in the final product are to be placed on the tree structure. This is especially important with the REACh regulations. When a substance considered a "processing chemical", "liquid" or "gas" is added to the tree structure, a warning appears. In order to release the MDS, you will have to indicate how that chemical remains I the final product:
 - Intended use
 - Reaction Residue
 - Impurity
- The MDS cannot be released until the information is provided.





INTERNATIONAL

MATERIAL

- The recyclate information was changed with IMDS Release 3.0. The link is still there but there is nothing you can do. Instead of clicking Next on the previous screen, you could have clicked Supplier data
- However, now that you're here, click
 Next

🕘 MDS - MAT	ERIAL I	DATA SYSTEM	A - Microso	oft Intern	et Explorer	provided b	y EDS COE					
									Phipps	, Kathy 💡	EDS (RM	IC Troy) [9763]
8	V		4	$\overline{\mathcal{O}}$	<u> </u>	Ē	Ē.	-	?	MAT	ERIA	LPATA
- Menu - Create		Recyclate Highly toxic de	e Informa emo m 9000	tion 000420 / 0.0)1 (Node ID 90	0000420)			,	Create ——	→ MDS	
- Ingredien _ Recyclate informatiu - Supplier	nts e on data t data	Since IMDS screen (cha Recyclate il classificatio	i release 3 apter 1). nformatior ins under	3.0, recyc n is only a compone	applicable f	ation is par for reference micompone	t of the "In es to mate ents.	gredients" erials of ce	rtain			
- <mark>-</mark> Log off		The menu i removed sh	tem "Recy nortly.	/clate info	ormation" ir	n the left na	vigation m	ienu will be	:			
		Back								Save		Next



Contact Information/Org Unit

- If your company uses Org Units (discussed in another document) you need to file this MDS there.
- Select the Contact person and the other information will be filled in automatically.

UserIDs and Contact people are created separately - if you need a contact created, ask the Client Manager.





Problem with Contact

- When the client manager creates the contact person, the contact is designated as for IMDS, REACH, or both. In this case, I have selected a contact person who has been designated as a REACH only contact.
- Select a contact that is responsible for IMDS and click next.

🗿 Check - Microsoft Internet Explorer provided by EDS COE
Check Results
→ Check Results MDS: Highly toxic demo material 900000420 / 0.01
Warning: Nickel: Range of portion may not exceed allowed percentage. Error: Highly toxic demo material: Contact must be responsible for IMDS
Double-click to jump to the error.
All existing errors need to be eliminated before any further processing may take place.



Making MDS "Productive" - Step 1

- We need to Wrap this up to be able to use it further. Click on Internal.
- The same check is made so no surprises. Now you can click on Internal. The IMDS system allows you to release and send with warnings – that does not mean your customer will accept.

Note – the **Send** and **Propose** buttons are grayed out – you cannot use them until you add a recipient





Haking MDS "Productive" - Step 2

• And answer **OK**

Mic

		🖆 MDS - 1	MATERIAL	DATA SYST	EM - Micro	soft Interne	t Explore	r provided	by EDS CO	Ε			
				_					_		Phipps,	, Kathy – EDS (F	RMC Troy) [9763]
			V	9	<u> </u>	Ø	<u> (1</u>)	Ē	6	-	?	MATERI	ALDATA SYSTEM
K		- O Menu		Recipie Highly toxic	nt data demo m 90	0000420 / 0.01	1 (Node ID 9	00000420)		→ Searc	h → Edit	──→ MDS ──→ F	Recipient data
		- O Search		MDS Stati	us: Edit m	ode		1	Send	Propo	se	Internal	Publish
		MDS Ingre Recy infor	dients clate mation Ilier data	Nothing fo No.to co Back	ound to dis mp. (Org. Add re	splay. <mark>-UnitNar</mark> ecipient	ne	Nothing fou	internal f Ind to disp	<mark>Mat Dr</mark> lay.	awing N Se	o. Recip. archResult	Status Save
		Reci	pient data		🙆 Cheo	:k - Micros	oft Inter	net Explo	rer provid	ded by ED	S COE		
		- O Log off			Che MDS: Warr	ck Result Highly tox ning: Nicke	ts ic demo II: Range	material § e of portio	90000042 n may no	20 / 0.01 t exceed	allowed		k Results
osof	ft Internet I	Explore	r			×							
2	You are abo Continue?	ut to rele	ase this	MDS for ir	iternal u	se.							
	ОК		Cano	:el		k to j	jump to 1	he error.					~
					Despi	te the exis	tence of	warning	message: Inte	s you ma rnal	y contin Cancel	ue.	×



INTERNATIONAL MATERIAL D.A.T.



 Note the changes
 Version number, status and buttons







900000420 - the position in the data base, what is commonly referred to as the IMDS ID

1 - Version number. If a decimal (.01, .02, .03, etc.) Ingredients and Supplier data can usually be changed (exception is if it has been sent to a customer and in "handshake" mode). If a whole number, no changes can be made on these pages. However, it may be proposed to a recipient.

 Node ID – of value to people who have paid to use IMDS through either our Advanced Interface (AI) or Advanced Accelerator (imds-a2) Recipient uata

Highly toxic demo m... 900000420 / 1 (Node ID 900000420)



Publish or Internally Release

- OEMs will not accept published data. Most suppliers will not accept published data. For that reason, the publish button has been deactivated in Release 7.0 except for special circumstances. Those circumstances can be found in Public Pages > FAQ > General Info > What's new in Release 7.0 and in Public Pages > FAQ > Faster Data Entry & IMDS Administration > What administration functions can a Client Manager perform?
- 99% of users NEVER Publish. We highly recommend not publishing the MDS. Publishing allows the MDS to be seen by anyone with an IMDS UserID. Internally Releasing allows only those in your IMDS company to use the MDS. If you want your customer to see it, then you need to use Send or Propose after adding a recipient (later in this document). However, if you supply a standard component or material to many customers, then publishing is acceptable.
- WARNING ABOUT USING PUBLISHED MDSs because anyone can publish, it is recommended that you NOT use any published MDSs *unless they were published by your supplier, the IMDS Committee or the manufacturer of the material.* No one is responsible for checking the quality of published MDSs.
- WARNING ABOUT PUBLISHING IF YOU DON'T MAKE THE MATERIAL your company's name and contact information is on the datasheet. Who do you think someone will call if there is a question or problem in the future? And if the material is a Trademarked material and you do not manufacture it, lawyers may become involved.



Create a Module/Material – "Special Materials"

- There are 4 material classifications that require a material symbol and the IMDS system guides you in creating that symbol:
 - 5.1.a Filled Thermoplastic
 - 5.1.b Unfilled Thermoplastic
 - 5.2 Thermoplastic Elastomer
 - 5.3 Elastomers/ elastomeric compounds
- Since all of these follow basically the same pattern in creating the symbol by using a wizard, we will only cover 5.1.a in this document.




Using the Symbol Wizard – Filled Thermoplastic

INTERNATIONAL



(III)

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Add the Substances





Finish as Normal

 In this case, I am using 2 jokers/wildcards. The Plasticizer is 3-5% with a weighted mean of 4% and the Flame Retardant is Rest or 6%.





Run the check

- In this case, I am using 2 jokers/wildcards. The Plasticizer is 3-5% with a weighted mean of 4% and the Flame Retardant is Rest or 6%.
- We have a warning





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Why the 10% Warning?

- The 10% warning requires a bit of understanding on how the calculations work.
 - Joker Plasticizer is from 3 to 5% weighted average 4%
 - Joker Flame Retardant REST -6%
- But
 - Even though the Plasticizer a has a weighted average of 4%, it COULD have as much as 5% in the material
- So really in this case, the total of unknown is 5% + 6% or 11% which fails the Recommendation 001 10% rule check.

🖹 Check - Microsoft Internet Explorer provided by EDS COE
Check Results MDS: ABS 900000421 / 0.01
Warning: ABS: More than 10% not specified substances. ("Not specified" - Error: ABS: Contact must be specified
Double-click to jump to the error. Warning: ABS: More than 10% not specified substances. ("Not specified" are wild card or confidential substances).
All existing errors need to be eliminated before any further processing may take place. Show Check Cancel

Note – Make sure you read Recommendation 001 which is found on the Recommendation link after login. You should also read other Recommendations if they pertain to your product.



:: In Conclusion: Ask Your Customer

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





- Many questions can be answered from the Public Pages > FAQs. Chances are you are not the first person who has asked this question and the Level 2 helpdesk has placed common questions on the site.
- Familiarize yourself with changes in the system the login screen frequently has a message about a new release and a link to the release notes. You are expected to read them. At the moment the helpdesk is free of charge to users, as is IMDS itself. We simply do not have the resources at the helpdesk to respond answering the same question individually to 50,000 users.

