

# These are 9 common cases of Rejections from Volvo Group suppliers' IMDS submissions:

1. Material Classification
2. Part Name
3. Application Codes
4. Material Breakdown
5. Material Name
6. Part Structure
7. Presence of Substances in the Reach Annex XIV
8. Substance Portion Range Values
9. Preliminary Datasheets

## **Additional Information**

1. Polymeric Parts Marking
2. Biocidal Product Regulation



# 1. Material Classification

1.1 Plastic Materials

1.2 Metallic Materials



# 1.1 Material Classification – Plastic Materials

## REJECTION REASON:

Material PVC (affected component: TAPE (PN XXXXXX)) - You have classified this material under 5.1.a (Filled Thermoplastic) but material contains no filler. If this material is really a filled thermoplastic, filler must be disclosed, otherwise, use classification 5.1.b (Unfilled Thermoplastic) instead.

A screenshot of a material composition tree for 'TAPE'. The tree shows a total weight of 62.4g. Underneath, there are several components listed with their respective weight percentages: 5.5 - 14.5%, 79.75 - 99.75% PVC (highlighted with a red box), 69.0 - 75.0% PVC, 21.0 - 24.0% Epoxy resin, 2.0 - 5.0% Plasticizer, not to declare, and 0.3 - 3.0% Misc., not to declare.

A screenshot of the 'Material Information' section in the software. It shows the following details: Std. Mat.-no.: -, Symbol: PVC, Classification: 5.1.a filled Thermoplastics, and Norms / Standards. A table below the standards section shows the following data:

Company	Norm	Norm Code
-	ISO	1043-1

## IMPORTANT NOTE:

This type of error can only be partially detected by the system through its checking functionality. Therefore, it is very important that “manual checking” must be done to avoid this type of rejection.



## 1.1 Material Classification – Plastic Materials

### IMDS Recommendation Rule 4.4.2.G:

This entry is mandatory. For all materials a correct classification must be assigned independent of the material weight in the part.

#### To identify, correct and avoid this type of rejection:

- 1. Check the basic substance breakdown of the material being called out.** In some cases, the IMDS check will issue a warning on some materials with suspicious classification but not for all. Therefore, to ensure compliance, the owner has to manually check this field.
- 2. Use the IMDS Recommendation Annex 001a document** for guidance in checking if the classification used is appropriate against the basic substance breakdown of the material.
- 3. Correct the “Classification” of the affected material as necessary.** If the material datasheet used came from your supplier, ask your supplier to make the necessary changes to the material data sheet and use the revised version to resubmit.

### Annex I to the IMDS001 Recommendation

IMDS 001a

Classification	Description	Example / Designation																																																						
5.1.a Filled Thermoplastics	<p>Thermoplastic materials containing substances according to the definition in ISO 1043-2.</p> <p>Examples for fillers:</p> <table border="1"> <thead> <tr> <th>Symbol</th> <th>Material</th> <th>Form / Structure</th> </tr> </thead> <tbody> <tr> <td>BD</td> <td>Boron</td> <td>powder</td> </tr> <tr> <td>CD</td> <td>Carbon, Graphite</td> <td>powder</td> </tr> <tr> <td>CF</td> <td>Carbon</td> <td>fiber</td> </tr> <tr> <td>DD</td> <td>Alumina trihydrate</td> <td>powder</td> </tr> <tr> <td>ED</td> <td>Clay</td> <td>powder</td> </tr> <tr> <td>GB</td> <td>Glass</td> <td>beads, spheres, balls</td> </tr> <tr> <td>GF</td> <td>Glass</td> <td>fiber</td> </tr> <tr> <td>GM</td> <td>Glass</td> <td>mat (thick)</td> </tr> <tr> <td>GS</td> <td>Glass</td> <td>flake</td> </tr> <tr> <td>KD</td> <td>Calcium Carbonate</td> <td>powder</td> </tr> <tr> <td>MD</td> <td>Mineral, Metal</td> <td>powder</td> </tr> <tr> <td>MF</td> <td>Mineral, Metal</td> <td>fiber</td> </tr> <tr> <td>RF</td> <td>Aramid</td> <td>fiber</td> </tr> <tr> <td>SD</td> <td>Synthetic organic</td> <td>powder</td> </tr> <tr> <td>TD</td> <td>Talcum</td> <td>powder</td> </tr> <tr> <td>WD</td> <td>Wood</td> <td>powder</td> </tr> <tr> <td>WF</td> <td>Wood</td> <td>fiber</td> </tr> </tbody> </table>	Symbol	Material	Form / Structure	BD	Boron	powder	CD	Carbon, Graphite	powder	CF	Carbon	fiber	DD	Alumina trihydrate	powder	ED	Clay	powder	GB	Glass	beads, spheres, balls	GF	Glass	fiber	GM	Glass	mat (thick)	GS	Glass	flake	KD	Calcium Carbonate	powder	MD	Mineral, Metal	powder	MF	Mineral, Metal	fiber	RF	Aramid	fiber	SD	Synthetic organic	powder	TD	Talcum	powder	WD	Wood	powder	WF	Wood	fiber	
Symbol	Material	Form / Structure																																																						
BD	Boron	powder																																																						
CD	Carbon, Graphite	powder																																																						
CF	Carbon	fiber																																																						
DD	Alumina trihydrate	powder																																																						
ED	Clay	powder																																																						
GB	Glass	beads, spheres, balls																																																						
GF	Glass	fiber																																																						
GM	Glass	mat (thick)																																																						
GS	Glass	flake																																																						
KD	Calcium Carbonate	powder																																																						
MD	Mineral, Metal	powder																																																						
MF	Mineral, Metal	fiber																																																						
RF	Aramid	fiber																																																						
SD	Synthetic organic	powder																																																						
TD	Talcum	powder																																																						
WD	Wood	powder																																																						
WF	Wood	fiber																																																						



## 1.2 Material Classification – Metallic Materials

The screenshot displays a software interface with several tabs: Received MDSs, Ingredients, Supplier Data, Recipient data, Analysis, and MDS Request. The 'Ingredients' tab is active, showing a list of components for 'Steel copper wire' (0.98g). The components are: Carbon (0.334 - 0.338%), Manganese (0.334 - 0.338%), Silicon (0.065 - 0.069%), Sulphur (0.013 - 0.017%), Phosphorus (0.009 - 0.015%), Iron (60.231 - 60.237%), and Copper (39.0%). A red box highlights the Carbon component. The 'Details' panel on the right shows the material's information, including Type (Material (MDS)), Name (Steel copper wire), and Classification (1.2 Cast iron). A red box highlights the Classification field.

**REJECTION REASON:**  
Material Steel copper wire (affected component: X (PN XXX)) - You have reported material under category 1.2 Cast iron. Basically, cast iron is an iron alloy with more than 2 % carbon but material contains 0.334-0.338% Carbon. Please investigate the composition of this material and change its classification appropriately.



## 1.2 Material Classification – Metallic Materials

### IMDS Recommendation Rule 4.4.2.G:

This entry is mandatory. For all materials a correct classification must be assigned independent of the material weight in the part.

### To identify, correct and avoid this type of rejection:

1. Check the basic substance breakdown of the material being called out. In some cases, the IMDS check will issue a warning on some materials with suspicious classification but not for all. Therefore, to ensure compliance, the owner has to manually check this field.
2. Use the **IMDS Recommendation Annex 001a document for guidance** in checking if the classification used is appropriate against the basic substance breakdown of the material.
3. Correct the **“Classification”** of the affected material as necessary. If the material datasheet used came from your supplier, ask your supplier to make the necessary changes to the material data sheet and use the revised version to resubmit.

Annex I to the IMDS001 Recommendation

IMDS 001a

Classification	Description	Example / Designation
1.1.2 Highly alloyed	<p>There are two definitions for highly alloyed steels.</p> <ol style="list-style-type: none"> <li>1. If the content of at least one alloying element is above 5 % you speak of highly alloyed steel.</li> <li>2. Highly alloyed steel consists of less than 95 % iron and more than 5 % further metallic alloying components.</li> </ol> <p>It is recommended to use definition 2 for IMDS matters. All metallic alloying components should be taken into account.</p>	X30Cr13, S42000, SUS420
1.2 Cast iron	<p>Although a selectable classification, it should only be used when classifications 1.2.1, 1.2.2 or 1.2.3 are not appropriate.</p> <p>If there is more than 2 % carbon in an iron alloy it should be considered cast iron.</p>	
1.2.1 Cast iron with lamellar graphite / tempered cast iron	Lamellar graphite is composed of lamellae, a thin flat scale, membrane, or layer of graphite (carbon) as opposed to nodular, which is approximately spherical.	EN-GJL-100 FC100
1.2.2 Cast iron with nodular graphite / vermicular cast iron	Nodular graphite flakes are used in approximately spherical cast iron part.	EN-GJS-400-15 FCD400-15
1.2.3 Highly alloyed cast iron	<p>Highly alloyed cast iron consists of iron, 2 % or more of carbon and more than 5 % metallic alloying components (Carbon and silicon contents should not be taken into account).</p> <p>A commercial alloy of iron, with higher amounts of carbon, and silicon, etc., that is cast in a mould and is hard, brittle, non-malleable, and incapable of being hammer-welded, but more readily fusible than steel. Often used in high temperature application.</p>	EN-GJSA-XNiCr20-2 (Synonym: EN-JS 3011) FCDA-NiCr 20 2
2 Light alloys, cast and wrought alloys	<p>This classification cannot be used.</p> <p>Metals and metal alloys with a density of less than 5g/cm<sup>3</sup> are called light metals.</p>	



## 2. Parts Description



## 2. Parts Description

**MATERIAL DATA SYSTEM**

MDS ▾ Functions ▾ Administration ▾ Help ▾

Received MDSs Ingredients Supplier Data Recipient data Analysis MDS Request

Filter GADSL  show regulatory information Regulation Wizard ▾

▼ Türsystem VO-LI-LL-P2540-N

**Details**

Common Information

Type Component (received MDS)

ID / Version

Node ID

Node count

MDS Supplier

Description Türsystem VO-LI-LL-P2540-N

Part/Item No

Preliminary MDS No

es

Create Date 11/27/2015 ?

Release Date 12/2/2015 ?

Check Date 11/27/2015 ? Recommendation

**Counts and Weights**

Measured weight per item 4969.0 g

Calculated weight per item 5033.214 g

Deviation 1.292292% ?

**REJECTION REASON:**  
Please indicate the proper description name. The part description used for MDS must describe the part correctly. According to our information from KOLA, the part name is WINDOWS LIFT KIT. Kindly verify this information and inform us by email.





## 2. Parts Description

### **IMDS Recommendation Rule 4.2.1.C:**

The top node component name must be descriptive and be in line with applicable customer specifications. If the component is a top node and will be sent to a customer, the recipient information controls the name the customer will see.

#### **To identify, correct and avoid this type of rejection:**

1. To identify this error, **manually double-check the “Part name/description”** using the **Part Drawing** (for single components) and **Bill of Materials** (for assemblies) as basis.
2. **Create a new version of the datasheet and edit the Part Description** according to what is in the Part Drawing or the Bill of Materials.

**Important Note:** This type of error is not detectable by the system through its checking functionality. Therefore, it is very important that **“manual checking”** must be done to avoid this type of rejection



# 3. Application Codes



# 3. Application Codes

The screenshot displays the MATERIAL DATA SYSTEM interface. The main window shows details for a material named 'Solder'. The composition is listed as 0.0025g Solder, consisting of 92.5% Lead, 5.0% Tin, and 2.5% Silver. The application code is 'DIO SCHOTTKY 1A 600V 1'. The application table shows Lead at 92.5% with the application ID 'Solder in electronic circuit boards and other electric applications [13]'. The Recycle section indicates that the material does not contain post-industrial or post-consumer recycle. The application table is also shown in a separate window below the main details.

Application	Basic Substance	% (MAX)	Application [ID]
Lead	Lead	92.5	Solder in electronic circuit boards and other electric applications [13]

## REJECTION REASON:

The part contains an occurrence of Lead listed in GADSL-P with application case "2008E08a&b : Pb in electr(on)ic - application cancelled". It is not in compliance with STD 100-0005 and should be phased out via PPCN. If not possible contact your responsible buyer.

\***application cancelled** -Supplier needs to assess if some other application is applicable or if phase-out of the substance is needed.



# 3. Application Codes

**REJECTION REASON:**  
 The part contains an occurrence of Nickel listed in GADSL-P with application case ""Ni release > 0.5µg/cm2/week (touched surface)"". It is not in compliance with STD 100-0005 and should be phased out via PPCN. If not possible contact your responsible buyer."

**Material Analysis Data:**

- 0.071g
  - 0.28 - 0.36% Carbon
  - 0.0 - 1.0% Silicon
  - 0.0 - 1.0% Manganese
  - 0.0 - 0.04% Phosphorus
  - 0.0 - 0.03% Sulphur
  - 12.0 - 14.0% Chromium
  - 0.0 - 1.0% Nickel
  - Rest 85.145% Iron

**Application Table:**

Component	Application	Basic Substance	% (MAX)	Application [ID]
Druckfeder		Nickel	1.0	Component of a surface likely to be routinely touched (eg. handles and buckles), that have a nickel release rate exceeding 0.5µg/cm2/week. [32]

\*application cancelled -Supplier needs to assess if some other application is applicable or if phase-out of the substance is needed.

### 3. Application Codes

**REJECTION REASON:**

The part contains an occurrence of [Cadmium] listed in GADSL-P with application case "2005E16 : Cd pastes - application cancelled". It is not in compliance with STD 100-0005 and should be phased out via PPCN. If not possible contact your responsible buyer.

- 1- [Material]
- 0.01g [Material]
- 0.024g [Material]
- 0.008g Contact
  - 85.0% Silver
  - 15.0% Cadmium

**MATERIAL DATA SYSTEM**

MDS ▾ Functions ▾ Administration ▾ Help ▾

Received MDSs Ingredients Supplier Data Recipient data Analysis MDS Request

Filter: GADSL show regulatory information

Regulation Wizard

**Details** Material language: English

**Common Information**

Type: Material (MDS)  
Name: Contact  
Trade name:  
Internal Mat. -No.: -  
Preliminary MDS: No

**Dates**

Create Date: 1/26/2015  
Check/Release Date: 1/26/2015 Recommendation

**Amounts and Weights**

Weight: 0.008 g

**Material Information**

Std. Mat. -No.: -  
Symbol: -  
Classification: 8.2 Electrics

**Norms / Standards**

Company	Norm	Norm Code
-	150	11111

Supplier: -

**Application**

Component	Application	% (MAX)	Application [ID]
	Basic Substance		
	Cadmium	15.0	Thick film pastes [28]

**Regulatory Information**

\*application cancelled -Supplier needs to assess if some other application is applicable or if phase-out of the substance is needed.



### 3. Application Codes

#### **IMDS Recommendation Rule 4.4.5.A :**

If a substance in a material MDS is application-relevant, the correct application code must be assigned when the material MDS is referenced in a component MDS.

#### **IMDS Recommendation Rule 4.4.5.B :**

The application code must reflect the real use of the material within the component.

#### **To identify, correct and avoid this type of rejection:**

1. During checking, the Application Code will be used as the basis to determine if the “Use / Presence” of the said Prohibited substance is currently “Exempted or Not”. For some basic substances (e.g. 4 Heavy Metals (Lead, Cadmium Hex Chrome, Mercury), an Application Code must be selected when the material containing one of these substances is first attached to a component type parent node. The substances requiring an application code are generally substances whose use in automotive products is limited to certain applications.

2. To correct this rejection, when choosing the appropriate application code, ensure that it must correspond with the type of “Part” and “Classification” of the material where the basic substance is present.

3. If you created the datasheet, investigate the material and consult the buyer for the appropriate application code. If the material was sent to you by a supplier ask them to investigate and change if necessary.

**Important Note:** There are some cases wherein this type of error is not detectable by the system through its checking functionality. Therefore, it is very important that “manual checking” must be done to avoid this type of rejection.



# 4. Material Breakdown

4.1 Mixed Materials

4.2 Confidential Substances

4.3 Liquids and Gases, Reactive  
Substances and Ions



## 4.1 Material Breakdown – Mixed Materials

The screenshot displays the MATERIAL DATA SYSTEM interface. The main window shows a material breakdown for 'RED WIRE' (3.105g) with a list of components: Polyvinylchloride (10.35%), Copper (71.5%), Limestone (10.08%), DIDP (5.22%), Alkanes, C14-17, chloro (2.13%), Calcium-dihydroxide (0.42%), Soybean oil, epoxidized (0.24%), and Further Additives, not to declare (0.06%). A yellow overlay box contains the following text:

**REJECTION REASON:**  
Material Cable (Affected Components: RED WIRE (PN XXXX))- You have reported a mixed material. Mixture of different substances in one material datasheet is not allowed. Every homogeneous material has to be described as a separate material. [IMDS Rec. 001, Rule 4.4.1.D]. For information about the definition of homogeneous, refer to IMDS Rec. 001 Annex I, section 1.1.

The interface also shows a 'Details' panel on the right with sections for 'Common Information', 'Remark', and 'Regulatory Information'. The 'Common Information' section includes fields for Symbol, Classification (8.2 Electrics), Norms / Standards, and Supplier. The 'Remark' section has a field for Remark. The 'Regulatory Information' section is currently empty.





## 4.1 Material Breakdown – Mixed Materials

### PLASTIC SUBSTANCE

<b>Common Information</b>	
Type	Basic Substance
Name(s)	Polyvinylchloride
	PVC
	Chloroethylene, polymer
	Ethylene, chloro-, polymer
CAS No.	9002-86-2
EINECS-No.	-
EU-Index	-
GADSL Category	-
REACH-SVHC	No
<b>Amounts and Weights</b>	
Portion	10.35 %
<b>Basic substance groups</b>	
Basic substance groups	Chk: Classification 1-6
	Chk: Named "poly"
	Chk: Named "poly" + elastomer w/o polym./durom.
	Chk: Named "poly" w/o duromers
	Chk: Named "poly" w/o polymers
	Chk: Named "poly", duromers and shellac
	Renault Complete
	Renault Orange

### METAL SUBSTANCE

<b>Common Information</b>	
Type	Basic Substance
Name(s)	Copper
	Cu
CAS No.	7440-50-8
EINECS-No.	231-159-6
EU-Index	-
GADSL Category	duty-to-declare
REACH-SVHC	No
<b>Amounts and Weights</b>	
Portion	71.5 %
<b>Basic substance groups</b>	
Basic substance groups	Biocides (GADSL)
	Chk: Classification 1-4
	Chk: Classification 1-6
	Renault Complete
	Renault Orange
	Social metals

1+ RED WIRE
3.105g
100.0 - 100.0% Cable
10.35% Polyvinylchloride
71.5% Copper
10.08% Limestone
5.22% DIDP
2.13% Alkanes, C14-17, chloro
0.42% Calcium-dihydroxide
0.24% Soybean oil, epoxidized
0.06% Further Additives- not to declare



## 4.1 Material Breakdown – Mixed Materials

### **IMDS Recommendation Rule 4.4.2.G:**

Every homogeneous material has to be described as a separate material. For information about the definition of “homogeneous”, refer to IMDS 001 Annex I, section 1.1. If a material parent node has material child nodes, the material represented by the parent node must be homogeneous. Two or more materials forming layers cannot be regarded as homogeneous. **Example: Zinc coating on steel or paint layers cannot be reported as a material with sub-materials, as the top material is not homogeneous.**

### **To identify, correct and avoid this type of rejection:**

- 1. Check the basic substance breakdown** of the material being called out. In some cases, the IMDS check will issue a warning on some materials with incorrect material breakdown (i.e. wildcards/jokers exceeding 10%). Therefore, to ensure compliance, the owner has to manually check this field.
- 2. Use the IMDS Recommendation 001a document for guidance** in checking if the material breakdown is reported properly .
- 3. Correct the datasheet** of the affected material as necessary. If the material datasheet used came from your supplier, ask your supplier to make the necessary changes to the material data sheet and use the revised version to resubmit.

#### **\*Important Note\***

Material Breakdown errors can only be partially detected by the system through its checking functionality. Therefore, it is very important that **“manual checking”** must be done to avoid this type of rejection.



## 4.2 Material Breakdown – Confidential Substances

The screenshot displays the MATERIAL DATA SYSTEM interface. The top navigation bar includes 'MDS', 'Functions', 'Administration', and 'Help'. The main menu has tabs for 'Received MDSs', 'Ingredients', 'Supplier Data', 'Received data', 'Analysis', and 'MDS Request'. A filter is set to 'GADSL' and 'show regulatory information' is checked. A tree view on the left shows a list of items with red icons and counts (e.g., 1x, 2x). The 'Received data' tab is active, and a red arrow points to it from a callout box labeled 'EXECUTE CHECK'. The 'Details' panel on the right shows the following information:

Common Information	
Type	
ID / Version	
Node ID	
Node count	
MDS Supplier	
Description	
Part/Item No.	
Preliminary MDS	No

Dates	
Create Date	3/23/2017 ?
Check/Release Date	3/23/2017 ? Recommendation

Amounts and Weights	
Measured weight per item	110.0 g
Calculated weight per item	106.8237 g
Deviation	-2.887545% ?





## 4.2 Material Breakdown – Confidential Substances

### IMDS Recommendation Rule 4.5.2.B:

If a GADSL update changes the status of substances that are marked as confidential in a material MDS, the respective material MDS must be updated accordingly so that the substance is no longer marked confidential. MDSs containing this material MDS also must be up-dated along the supply chain (see section 3.2).

#### To identify, correct and avoid this type of rejection:

1. **Check the basic substance breakdown** of the material being called out. In some cases, the IMDS check will issue a warning on some materials with incorrect material breakdown(i.e. wildcards/jokers exceeding 10%). Therefore, to ensure compliance, the owner has to manually check this field.
2. **Use the IMDS Recommendation 001a document for guidance** in checking if the material breakdown is reported properly .
3. **Correct the datasheet of the affected material** as necessary. If the material datasheet used came from your supplier, ask your supplier to make the necessary changes to the material data sheet and use the revised version to resubmit.

#### \*Important Note\*

Material Breakdown errors can only be partially detected by the system through its checking functionality. Therefore, it is very important that “**manual checking**” must be done to avoid this type of rejection.



## 4.3 Material Breakdown – Liquids and Gases, Reactive Substances and Ions

The screenshot displays the MATERIAL DATA SYSTEM interface. The top navigation bar includes 'MDS', 'Functions', 'Administration', and 'Help'. Below this, a secondary navigation bar contains 'Received MDSs', 'Ingredients', 'Supplier Data', 'Recent data', 'Analysis', and 'MDS Request'. The 'Recent data' tab is active, and a red arrow points to it from a box labeled 'EXECUTE CHECK'. The main content area shows a tree view of materials under the filter 'GADSL'. The tree includes a 'Rubber' category with a total weight of 4.8g, and sub-items: '90.0% 2-Chlorobuta-1,3-diene', '2.0% Antimonytrioxide', and 'Rest 8.0% Further Additives, not to declare'. On the right, a 'Details' panel is visible, containing sections for 'Common Information', 'Dates', and 'Amounts and Weights'.

**EXECUTE CHECK**

**Details**

- Common Information**

Type	Component (received MDS)
ID / Version	
Node ID	
Node count	
MDS Supplier	
Description	
Part/Item No.	
Preliminary MDS	No
- Dates**

Create Date	5/25/2017
Check/Release Date	5/25/2017
- Amounts and Weights**

Measured weight per item	15.4 g
Calculated weight per item	15.4 g
Deviation	0.0%



## 4.3 Material Breakdown – Liquids and Gases, Reactive Substances and Ions

The screenshot displays the MATERIAL DATA SYSTEM interface. The main window shows a material breakdown for 'Rubber' (4.8g) with the following components:

- 90.0% 2-Chlorobuta-1,3-diene
- 2.0% Antimonytrioxide
- Rest 8.0% Further Additives, not to declare

The details panel for 2-Chlorobuta-1,3-diene shows the following information:

- Type: Basic Substance
- Name(s): 2-Chlorobuta-1,3-diene, 1,3-Butadiene, 2-chloro, Chloropren, Neoprene
- CAS No.: 126-99-8
- EINECS-No.: 204-818-0
- EU-Index: 602-036-00-8
- GADSL Category: GADSL.org
- REACH-SVHC: No

The 'Basic substance groups' section is highlighted, showing 'Liquids and Gases' selected.

**REJECTION REASON:**  
Material Rubber (affected component: XXX (PN XXX)) - You have reported a liquid or gaseous basic substances (90% 2-Chlorobuta-1,3-diene) in a material with exception of classification 9.x. A material must be described in its end state. Only basic substances contained in the final material are to be reported (IMDS Rec. 001, Rule 4.4.1.B).

**Check results - 0 Error(s) / 2 Warning(s)**

No.	Type	Tab	Node / Recipient	Message
1	Warning	Ingredients	Rubber	A material of classification 5.3 must contain at least 10% substances of the group "Chk: Named "poly" + elastomer w/o polym./durom.".
2	Warning	Ingredients	2-Chlorobuta-1,3-diene	A liquid or a gaseous substance is normally not contained in a solid material.



### IMDS Recommendation Rule 4.4.1.B:

A material must be described in its end state. Only basic substances contained in the final material are to be reported (**example: cured adhesives or paint coatings are entered without the evaporating solvents**).

#### To identify, correct and avoid this type of rejection:

1. **Check the basic substance breakdown** of the material being called out. In some cases, the IMDS check will issue a warning on some materials with incorrect material breakdown(i.e. wildcards/jokers exceeding 10%). Therefore, to ensure compliance, the owner has to manually check this field.
2. **Use the IMDS Recommendation 001a document** for guidance in checking if the material breakdown is reported properly .
3. **Correct the datasheet of the affected material** as necessary. If the material datasheet used came from your supplier, ask your supplier to make the necessary changes to the material data sheet and use the revised version to resubmit.

#### \*Important Note\*

Material Breakdown errors can only be partially detected by the system through its checking functionality. Therefore, it is very important that **“manual checking”** must be done to avoid this type of rejection.

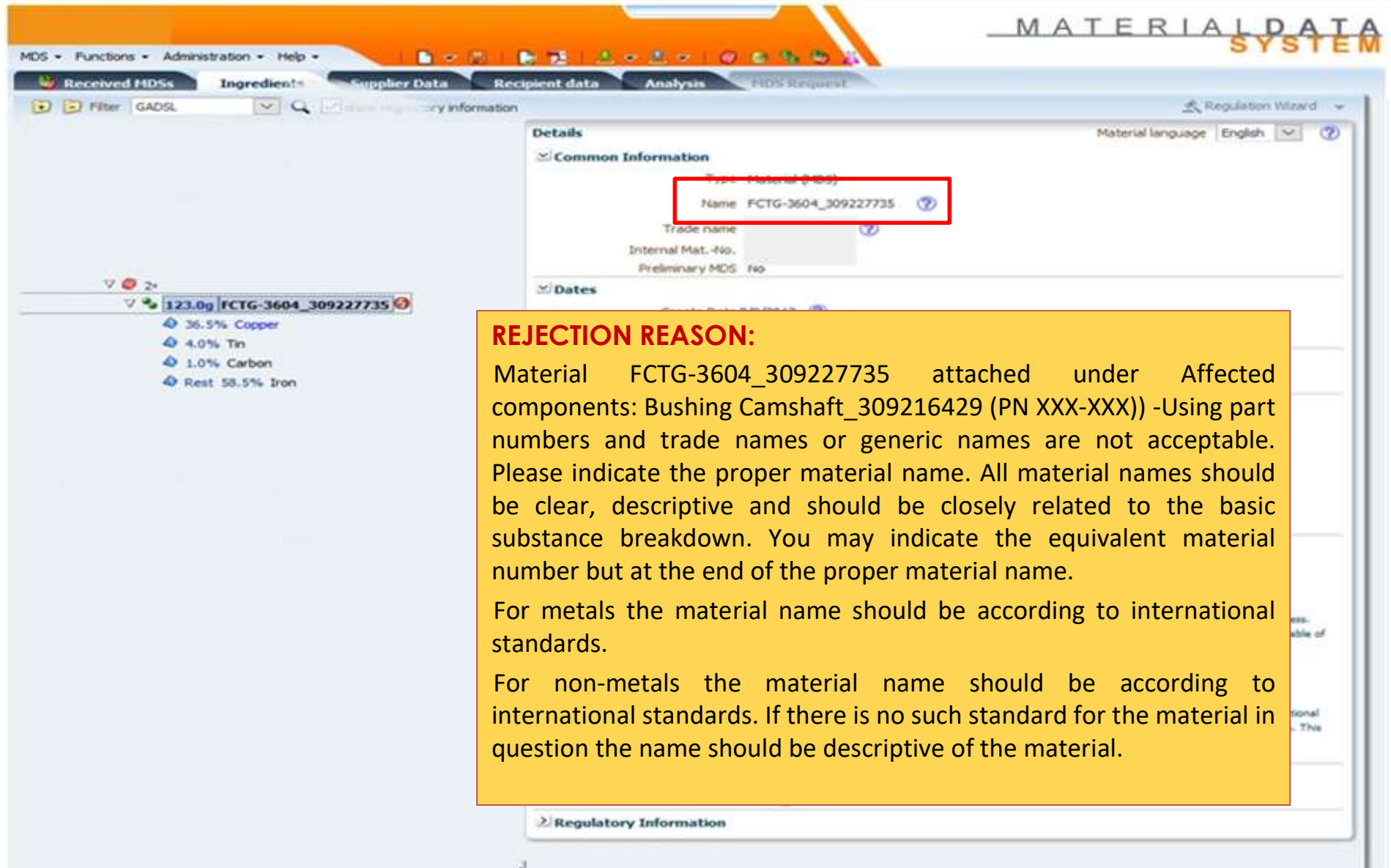




# 5. Material Names



## 5. Material Names



The screenshot shows the MATERIAL DATA SYSTEM interface. The main window displays details for a material with the name **FCTG-3604\_309227735**, which is highlighted in a red box. The material type is listed as "Material (MDS)". The composition is shown as 123.0g, consisting of 36.5% Copper, 4.0% Tin, 1.0% Carbon, and Rest 58.5% Iron. The interface includes a navigation menu at the top with options like "Received MDSs", "Ingredient", "Supplier Data", "Recipient data", "Analysis", and "MDS Request". A "Regulation Wizard" dropdown is visible in the top right corner. A yellow callout box with a red border contains the following text:

**REJECTION REASON:**  
Material FCTG-3604\_309227735 attached under Affected components: Bushing Camshaft\_309216429 (PN XXX-XXX) -Using part numbers and trade names or generic names are not acceptable. Please indicate the proper material name. All material names should be clear, descriptive and should be closely related to the basic substance breakdown. You may indicate the equivalent material number but at the end of the proper material name.  
For metals the material name should be according to international standards.  
For non-metals the material name should be according to international standards. If there is no such standard for the material in question the name should be descriptive of the material.



## 5. Material Names

### To identify, correct and avoid this type of rejection:

1. To identify this error, “**manually**” **double-check the Material Names** used in every part present in the datasheet. It must correspond to the Basic Substance Breakdown and Classification used in the material.

–For Steels – **EN 10027, JIS norms, example: STM-C 540**

–For Aluminum Alloys – **EN 573, JIS norms, example: Al-Si12**

–For Copper Alloys – **ISO norms, example: CuAl5**

–For Plastics – **ISO 1043-1 and ISO 1043-2, example: PE-LD**

–For Elastomers – **ISO 1629, example: ACM**

–For Thermoplastic Elastomers – **ISO 18064, example: TPA-ES**

2. If no name is available which is described in a public standard, then the name must be descriptive. Examples are:

- Aluminum alloy
- Adhesive layer
- Basecoat, clear coat
- Glass
- Propellant, airbag
- Lubricant

3. For a (non-standard) descriptive name, the material name should identify the category (**example: metal, polymer, mineral, propellant, organic, lubricant**).

4. To correct this rejection, if the material datasheet used came from your supplier, asked your supplier to make the necessary changes to the material name and used the revised version to resubmit.

### IMDS Recommendation Rule 4.4.2.A :

The material name must be entered in English in the EN field. The added name translation in other languages is optional.

### IMDS Recommendation Rule 4.4.2.B :

The material name must not be a trade name. Trade names can be entered in the field “Trade name” .

### IMDS Recommendation Rule 4.4.2.C:

If the material is described in a public standard, or if the nomenclature for materials of a certain type is described in a public standard (example: ISO 1043-1 and 2 for plastics, ISO 1629 for Elastomers or ISO 18064 for thermoplastic Elastomers), then the material name according to this public standard must be entered.

### IMDS Recommendation Rule 4.4.2.D:

If no name is available which is described in a public standard, then the name must be descriptive.

**Important Note:** This type of error is not detectable by the system through its checking functionality. Therefore, it is very important that “**manual checking**” must be done to avoid this type of rejection



# 6. Part Structure



## 6. Parts Structure

The screenshot displays the MATERIAL DATA SYSTEM interface. The top navigation bar includes 'MDS', 'Functions', 'Administration', and 'Help'. Below this, a secondary navigation bar contains 'Received MDSs', 'Ingredients', 'Supplier Data', 'Regulatory data', 'Analysis', and 'MDS Request'. A red arrow points to the 'Regulatory data' tab, which is highlighted with a black box containing the text 'EXECUTE CHECK'. The main content area is divided into a left sidebar with a search filter set to 'GADSL' and a 'show regulatory information' checkbox, and a right-hand 'Details' panel. The 'Details' panel is organized into three sections: 'Common Information', 'Dates', and 'Amounts and Weights'. The 'Common Information' section includes fields for 'Type' (Component (received MDS)), 'ID / Version', 'Node ID', 'Node count' (17), 'MDS Supplier', 'Description', 'Part/Item No.', and 'Preliminary MDS' (No). The 'Dates' section shows 'Create Date' (1/20/2017), 'Release Date' (not available), and 'Check Date' (1/20/2017) with a 'Recommendation' icon. The 'Amounts and Weights' section lists 'Measured weight per item' (29.7 g), 'Calculated weight per item' (29.7 g), and 'Deviation' (0.0%).

**EXECUTE CHECK**

**Details**

**Common Information**

Type	Component (received MDS)
ID / Version	
Node ID	
Node count	17
MDS Supplier	
Description	
Part/Item No.	
Preliminary MDS	No

**Dates**

Create Date	1/20/2017
Release Date	not available
Check Date	1/20/2017

**Amounts and Weights**

Measured weight per item	29.7 g
Calculated weight per item	29.7 g
Deviation	0.0%



## 6. Parts Structure

The screenshot displays the MATERIAL DATA SYSTEM interface. The main window shows a tree view of ingredients on the left, with a red box highlighting a specific node. The right pane shows details for the selected component, including common information, dates, and amounts and weights. A warning message is visible at the bottom of the interface, indicating a rejection reason.

**REJECTION REASON:**  
Component X (PN XXX-XXX) - Incorrect structure. Component has a mixture of structure types: Component and Material on the same level (Rule 4.1.A).

**Details**

**Common Information**

Type	Component (received MDS)
ID / Version	[Redacted] ⚠
Node ID	[Redacted]
Node count	17
MDS Supplier	[Redacted]
Description	[Redacted]
Part/Item No.	[Redacted]
Preliminary MDS	No

**Dates**

Create Date	1/20/2017 ?
Release Date	not available ?
Check Date	1/20/2017 ? Recommendation

**Amounts and Weights**

Measured weight per item	29.7 g
Calculated weight per item	29.7 g
Deviation	0.0% ?

**Check results - 0 Error(s) / 1 Warning(s)**

No.	Type	Tab	Node / Recipient	Message
1	⚠	Ingredients	⚠	Different types of nodes (components, semi-components, materials) are used at the same level.



## 6. Parts Structure

### IMDS Recommendation Rule 4.1.A:

Child nodes of the same parent node must be of the same type (ex. a component parent node may consist of all component child nodes or all material child nodes, but not a mixture of component and material child nodes).

### To identify, correct and avoid this type of rejection:

1. To identify this error, **click the “Execute Check”** functionality in IMDS.
2. A **“warning message”** about the mixture of different types of nodes will appear in the **“Check results”** window. **Double-click on the warning message** to get to the affected component.
3. Correct the error on the Part Structure. **Refer to the IMDS Recommendation 001 document for guidance** in the proper creation of datasheet structures. Perform the **“Execute Check”** functionality in IMDS. The **“warning message”** should disappear after making the correction.



# 7. Presence of Substances in the Reach Annex XIV





# REACH ANNEX XIV

- **REACH authorization list**
- It contains a list of substances subject to authorization under EU REACH regulation. These substances **used in manufacturing located within EU after a given date called sunset date, unless authorization is granted or it is exempted from authorization.**
- REACH (EC 1907/2006) aims to improve the protection of human health and the environment. This is done by the four processes of REACH, **namely the registration, evaluation, authorization and restriction of chemical substances.** REACH is a European legislation which is mandatory for all companies in EU. The Substances of Very High Concern (SVHC) defined by REACH will be restricted or banned. Suppliers are asked by Volvo to substitute these substances.



## 7. Presence of Substances in the REACH Annex XIV

Source: <https://echa.europa.eu/authorisation-list>

Substance Name	EC Number	CAS Number	Sunset Date
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	22/01/2019
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	22/01/2019
Dichromium tris(chromate)	246-356-2	24613-89-6	22/01/2019
Strontium chromate	232-142-6	7789-06-2	22/01/2019
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	22/11/2017
1,2-Dichloroethane (EDC)	203-458-1	107-06-2	22/11/2017
Ammonium dichromate	232-143-1	7789-09-5	21/09/2017
Potassium chromate	232-140-5	7789-00-6	21/09/2017



# 7. Presence of Substances in the REACH Annex XIV

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

Filter: GADSL  show regulatory information Regulation Wizard

- 0.19mg Chromate film black Zn
  - 0.0 - 0.5% Misc., not to declare
  - 0.0 - 0.4% Silver
  - Rest 44.05% Zinc (metal)
  - 31.0 - 38.0% Chromium-oxide
  - 18.0 - 24.0% Chromium-trioxide**

EU-Index 024-001-00-0

GADSL Category duty-to-declare / prohibited [GADSL.org](#)

REACH-SVHC Yes [?](#)

**▼ Dates**

Sunset date 9/21/2017

Lastest application date 3/21/2016

**▼ Amounts and Weights**

Portion 18.0 - 24.0 %

Weighted mean 21.0%

**▼ Basic substance groups**

- Basic substance groups Appl. rel. subst.
- Biocides (GADSL)
- California Proposition 65
- Chromium(VI)-salts
- Process Chemicals
- REACH Annex XIV**
- RNES B 00027 - Complete
- RNES B 00027 - Prohibited

**▼ Chemical presence type**

Chemical presence type Intended use [?](#)

Substance name	EC No.	CAS No.	Entry No.	Latest application date	Sunset Date	
Chromium trioxide <small>expand / collapse</small>	215-607-8	1333-82-0	16	21/03/2016	21/09/2017	



# 7. Presence of Substances in the REACH Annex XIV

**REJECTION REASON:**  
The part contains occurrences of Chromium-trioxide, CAS No. 1333-82-0 listed in REACH Annex XIV. The sunset date has passed and the substance is not allowed to be used in EU without authorization. Because of its very hazardous properties, Volvo expects that the substance will be phased out globally. You shall contact your buyer and initiate a PPCN. If you have an authorization please send a copy to [volvogroup\\_imsreport@i-ntrinsic.com](mailto:volvogroup_imsreport@i-ntrinsic.com).

Basic Substance	Added for biocidal property?	Biocidal property desired in finished article/product?	Product type
-			

Basic Substance	Authorization status
*) no regulatory information available, because the reference is not included in this version of the regulatory information	



## 7. Presence of Substances in the REACH Annex XIV

The screenshot displays a chemical database interface. On the left, a list of substances is shown with their respective concentrations and names. The substance **Di-(2-ethylhexyl)phthalat** is highlighted in blue. On the right, the detailed view for this substance is shown, including common information, dates, and basic substance groups. The 'Basic substance groups' section is highlighted with a red box, and 'REACH Annex XIV' is specifically highlighted within it.

**Substances in the list:**

- 4.3g NBR
- 31.0 - 35.0% 2-Propenenitrile, polymer with 1,3-butadiene
- 30.0 - 33.0% Carbon black
- 10.0 - 14.0% Di-(2-ethylhexyl)phthalat**
- 1.0 - 3.0% Talc
- 1.0 - 3.0% Distillates (petroleum), solvent-refined heavy paraffinic
- 1.0 - 4.0% Styrene polymer with 1,3-butadiene
- 1.0 - 4.0% Zinc oxide
- 1.0 - 4.0% N-tert-Butylbenzothiazole-2-sulfenamide

**Details for Di-(2-ethylhexyl)phthalat:**

- Common Information:**
  - Type: Basic Substance
  - Name(s): Di-(2-ethylhexyl)phthalat, Bis (2-ethyl(hexyl)phthalate) (DEHP), DEHP, DOP
  - CAS No.: 117-81-7
  - EINECS-No.: 204-211-0
  - EU-Index: -
  - GADSL Category: duty-to-declare / prohibited (GADSL.org)
  - REACH-SVHC: Yes
- Dates:**
  - Sunset date: 2/21/2015
  - Lastest application date: 8/21/2013
- Amounts and Weights:**
  - Portion: 10.0 - 14.0 %
  - Weighted mean: 14.0%
- Basic substance groups:**
  - Basic substance groups: California Proposition 65, Phthalates, GADSL listed, **REACH Annex XIV**, RNES B 00027 - Complete, RNES B 00027 - Prohibited

Substance name	EC No.	CAS No.	Entry No.	Latest application date	Sunset Date	
Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	04	21/08/2013	21/02/2015	





# 8. Substance Portion Range Values



## 8. Substance Portion Range Values

The screenshot displays the MATERIAL DATA SYSTEM interface. The top navigation bar includes 'MDS', 'Functions', 'Administration', and 'Help'. Below this, a secondary navigation bar contains 'Received MDSs', 'Ingredients', 'Supplier Data', 'Recent data', 'Analysis', and 'MDS Request'. A red arrow points to the 'Recent data' tab. The main workspace shows a search filter 'GADSL' and a list of items, with '1x Flanged screw' selected. A 'Regulation Wizard' icon is visible in the top right. A 'Details' panel on the right provides information for the selected item:

Details	
<b>Common Information</b>	
Type	Component (MDS)
Description	Flanged screw
Part/Item No.	
Preliminary MDS	No
<b>Dates</b>	
Create Date	7/17/2017
Release Date	9/29/2017
Check Date	7/17/2017
<b>Amounts and Weights</b>	
Quantity	1
Measured weight per item	52.0 g
Calculated weight per item	52.0 g
Deviation	0.0%





## 8. Substance Portion Range Values

The screenshot shows the MATERIAL DATA SYSTEM interface. The left sidebar lists ingredients for a 'Flanged screw' material, with '0.0 - 65.0% Zinc (metal)' highlighted in a red box. The main window displays the 'Details' tab for 'Common Information', showing the material type as 'Material (published MDS)'. A yellow warning icon is visible next to the Zinc entry in the sidebar. At the bottom, a 'Check results' table is shown, with two rows highlighted in a red box:

No.	Type	Tab	Node / Recipient	Message
1	Warning	Ingredients	Flanged screw	A material of classification 3.3 must contain at least 70% substances of the group "Chk: Zinc".
2	Warning	Ingredients	Zinc (metal)	Range of portion may not exceed allowed percentage.

**REJECTION REASON:**  
Basic Substance Zinc(metal) (attached under Material X component: FLANGE SCREW (PN XXX-XXX)) - Portion range value exceeds allowed percentage. The range 0% - 65% is not allowed because for the lower limit 0%, the maximum limit should be 3% ( $0 + 3 = 3$ ) and not 65%. The maximum range value should be  $\leq 3$ . Please refer to IMDS Recommendation 001 for guidance (Rule 4.5.4.B).



## 8. Substance Portion Range Values

To identify, correct and avoid this type of rejection:

1. To identify this error, click the “Execute Check” functionality in IMDS.
2. A “warning message” about the presence of substances with incorrect portion range in the material will appear in the “Check results” window. Double-click on the warning message to get to the affected basic substance.
3. Correct the reported portion range by referring to the **IMDS Recommendation 001**.

### IMDS Recommendation Rule 4.5.4.B:

If the portion type “range” is selected, the following maximum portion ranges apply:

Portion: from X % to Y %	Maximum M = Y % – X %
$0 \leq X \leq 7.5$	$M \leq 3$
$7.5 < X \leq 20$	$M \leq 5$
$20 < X \leq 100$	$M \leq 10$

If ranges are used (example: 2 % – 8 %), the smaller number defines the row and M value in the table to be used. Consequently, the range 2 % – 8 % is not allowed because for the lower limit 2 %, the maximum Y value is 5 ( $2 + 3 = 5$ ).

#### *Exemptions from this rule:*

A basic substance as part of a material that is defined with a larger range in a public norm (although in this case, the respective material MDSs published by the IMDS Steering Committee should preferably be used when available).

A basic substance as part of a material is defined with a larger range in an in-house specification (see 4.4.2 In-house Norms). This in-house specification must be part of the delivery conditions.

Basic substances in MDSs published by the Steering Committee (Supplier: IMDS-Committee, ID 423; IMDS-Committee/ILI Metals, ID 18986 or Stahl und Eisen Liste, ID 313).

Materials containing substances with a natural range higher than those given in the table.



# 9. Preliminary Datasheets



## 9. Preliminary Datasheets

The screenshot shows the MATERIAL DATA SYSTEM interface. The main window displays details for a material entry: "Plastics (in polymeric compounds)". The "Preliminary MDS" checkbox is checked, and a warning message is displayed: "Warning! If you tick the box, this MDS will be a preliminary version. You will need to send later a final version." A yellow callout box explains the rejection reason.

**REJECTION REASON:**

Material Plastics (affected component: X (PN XXX-XXX)) - Preliminary data in a non-preliminary datasheet is not acceptable. Please answer NO on the "Development Sample Report" for final datasheets otherwise, indicate in the description field that this part is a preliminary datasheet if it is a preliminary datasheet. Please refer to IMDS Recommendation 023 for guidance.

Check results - 0 Error(s) / 0 Warning(s)

No.	Type	Tab	Node / Recipient	Message
				The MDS successfully passed all checks.



## 9. Preliminary Datasheets

### To identify, correct and avoid this type of rejection:

1. To identify this error, click the “Execute Check” functionality in IMDS.
- 2.A “warning message” about the presence of “Development Sample datasheet” will appear in the “Check results” window. Double-click on the warning message to get to the affected datasheet.
3. Correct the affected material as necessary. Ensure that the “Development Sample Report” field is answered “NO”. Perform the “Execute Check” functionality in IMDS. The “warning message” should disappear after making the correction

**Important Note:** This type of error is not detectable by the system through its checking functionality. Therefore, it is very important that “manual checking” must be done to avoid this type of rejection

### IMDS Recommendation Rule 4.4.4.A:

If the material is marked as “Preliminary” (shown by checking the box, Development Sample Report), whatever parent node it is attached to must also be marked “Preliminary”.

### IMDS Recommendation Rule 4.4.4.B:

The use of “Preliminary” material MDSs (including the ProtMats published by the IMDS Steering Committee) is allowed solely in “Preliminary” MDSs, provided there are no GADSL (suppliers to Renault: BGO list) substances contained in the material.

### IMDS Recommendation Rule 4.4.4.C:

The use of “Preliminary” material MDSs in final MDSs (representing production parts) is forbidden. In a final MDS (during PPAP/Initial Sample Report), the material composition must be known and has to be declared in accordance with this document. entered.



# Additional Information



# 1. Polymeric Parts Marking



# 10. Polymeric Parts Marking

**REJECTION REASON:**  
Component mirror plate (PN XXX-XXX) - Not in compliance with STD 103-0002, please contact your buyer responsible. Part is not appropriately marked to comply with recycling regulations--ISO standards. **Please check the actual part.** If the part is marked, answer "Yes". If not, kindly verify with the buyer if the part is in compliance with Volvo Group's requirement for polymeric parts marking STD 103-0002.

**Details**

**Common Information**

Type	Component (MDS)
Description	mirror plate
Part/Item No.	
Preliminary MDS	No

**Dates**

Create Date	8/18/2020
Check/Release Date	8/21/2020

**Amounts and Weights**

Quantity	1
Measured weight per item	500.0 g
Calculated weight per item	500.0 g
Deviation	0.0%

**Parts Marking**

Polymeric part(s) marked No (Parts not marked as required.)

**Check results - 0 Error(s) / n Warning(s)**

No	Type	Tab	Node / Recipient	Message
	Warning	Ingredients	mirror plate	Weight of contained polymeric materials requires polymeric parts marking question to be answered with "Yes" or "Not Applicable"





## 10. Polymeric Parts Marking

### To identify, correct and avoid this type of rejection:

1. To identify this error, click the “**Execute Check**” functionality in IMDS.
2. A “**warning message**” about the unanswered “**Polymeric Parts Marking**” field will appear in the “**Check results**” window. Double-click on the warning message to get to the affected component.
3. Please investigate if the part is actually marked and answer accordingly. “Yes” should be selected if the actual physical part has been marked. “No” should be chosen if there is a parts marking requirement (e.g. on the design drawing), but the part is not marked. “Not Applicable” can be selected if weight, dimensioning, or surface does not permit marking.
4. Correct the error on the “**Polymeric Parts Marking**” field by answering it by either Yes, No or Not Applicable . Perform the “**Execute Check**” functionality in IMDS. The “**warning message**” should disappear after making the correction.

### Marking of polymeric parts:

If a component contains at least one polymeric material (classification 5.x), an additional question appears in the component details:

The answer is mandatory if the component contains

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

**Important Note:** It is very important to check whether the answer to the polymeric parts marking field is appropriate to the described part.



## 2. How to update Biocidal Product Regulation



The screenshot displays a software interface with several tabs: 'Received MDSs', 'Ingredients', 'Supplier Data', 'Recipient data', 'Analysis', and 'MDS Request'. The 'MDS Request' tab is active. On the left, a tree view shows a hierarchy starting with 'Front Axle' and several sub-items, some with red circular icons. A search filter 'GADSL' is applied. A 'show regulatory information' checkbox is checked. In the top right corner, a 'Regulation Wizard' dropdown menu is open, with the 'Regulation Wizard' tab highlighted by a red box. The dropdown menu contains three options: 'Biocidal Product Regulation', 'REACH Annex XIV: Material', and 'REACH Annex XIV: Semi-/Component'. Below the dropdown, a 'Details' panel is visible, showing 'Common Information' for a 'Component (received MDS)'. Fields include 'ID / Version', 'Node ID', 'Node count', 'MDS Supplier', 'Description: Front Axle', 'Part/Item No.', and 'Preliminary MDS: No'. Below this, a 'Dates' section shows 'Create Date: 8/25/2020' and 'Check/Release Date: 8/25/2020'. An 'Amounts and Weights' section shows 'Measured weight per item: 663096.84 g' and 'Calculated weight per item: 663096.84 g'. A 'Recommendation' icon is also present.

At the upper right side of your datasheet, you can click on the Regulatory Wizard tab. You will then have 3 options, whether it is for Biocidal Product Regulation (BPR), Reach Annex XIV: Material and Reach Annex XIV: Semi-/Component.

When you click BPR, you have two options, one is “Edit Own Regulatory Information”. If you manufacture the material containing the potential biocide, this will be your option. But if you are supplied by a material manufacturer containing the potential biocide, you can click “View Supplied Regulatory Information”.



MDS - MATERIAL DATA SYSTEM

Regulation Wizard

View Filter

Name	ID / Version	Part/Item No.	CAS No.	EINECS/ELINCS No.	Still in production?	Added for biocidal property?	Biocidal property desired in finished article/product?	Product type	Request update regulatory information
Front Axle	900132190 / 3	23633134							
Body.									
e-plate Ag (electrodeposited)	757767 / 1								
The material classification 4.2									
High Copper Alloy	158414641 / 3	UNS C19010							
The material classification 3.1									
adhesive	932511 / 12								
no more BPR substances included									
NBR Nitrile Butadiene Rubber					Yes	No			
Zinc oxide			1314-13-2			No			
NBR		902			Yes	No			
Zinc oxide			1314-13-2			No			
Ziram			137-30-4			No			
NBR		878			Yes	No			
Ziram			137-30-4			No			

Previous   Next   Request update of regulatory information All MDSs/Modules

When you view supplied regulatory information, this box appears. You can click “Request Update Of Regulatory Information” for all or one by one for each material listed on the wizard.



**Thank you!**

