

## International Material Data System

IMDS Recommendation	IMDS 004
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## Textiles/Fibres

## 1 Purpose

This recommendation outlines the general requirements for the creation of Material Data Sheets (MDS) for fibre products. Products can be e.g. textiles, fabrics, fleece which are used for seats or seat belts. The recommendation covers also fibre reinforcements for plastic (see Recommendation IMDS 010) or elastomer components like tires or fuel hoses (see Recommendation IMDS 003). The recommendation describes **Man-made Fibres** and **Natural Fibres** in accordance with ISO 2076 and ISO 6938. It shall be used to report comprehensive fibre product compositions thus enabling the automobile manufacturers to demonstrate compliance with legal and proprietary requirements. The description of a fibre material product should include the base fibre substances, pigment portions, flame retardants or water/dust repelling substances as they remain in/on the product. Substances which do not remain on the product, e.g. if they are washed out in a washing process, need not be declared.

## 2 References

IMDS 001, IMDS 003 (Elastomers), IMDS 010 (Polymers), IMDS 017 (FRPs, Fibre reinforced plastic products, Thermosets), ISO 2076 (Man-made fibres), ISO 6938 (Natural fibres)

## 3 Definitions

### 3.1 Base Material (Fibre)

For textiles often man-made fibres or natural fibres are used. You can find these substances in the IMDS-substance list by searching "man-made fibre" or "natural fibre".

<input checked="" type="checkbox"/> <a href="#">Component</a>	<input type="checkbox"/> <a href="#">Semi-component</a>	<input type="checkbox"/> <a href="#">Material</a>	<input type="checkbox"/> Basic Substance	<input type="checkbox"/> <a href="#">All MDS/Modules</a>
Name / Synonym: <input type="text" value="man-made fibre*"/>				
CAS No.: <input type="text"/>				
EU-Index: <input type="text"/>				
Einecs-No.: <input type="text"/>				
VDA category				
duty-to-declare: <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N.A.				
prohibited: <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N.A.				

Search for „Man-made fibre“ in the substance list of IMDS.

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Total records found: 23

No.	Name	CAS No.	EU-Index	Einecs-No.	Synonym	VD
1	ALG-Fibre	-	-	-	Man-made Fi...	-
2	AR-Fibre	-	-	-	Man-made Fi...	-
3	CA-Fibre	-	-	-	Man-made Fi...	-
4	CF-Fibre	-	-	-	Man-made Fi...	-
5	CLF-Fibre	-	-	-	Man-made Fi...	-
6	CLY-Fibre	-	-	-	Man-made Fi...	-
7	CMD-Fibre	-	-	-	Man-made Fi...	-
8	CTA-Fibre	-	-	-	Man-made Fi...	-
9	CUP-Fibre	-	-	-	Man-made Fi...	-
10	CV-Fibre	-	-	-	Man-made Fi...	-

Basic substance data:

CAS No.: -

duty-to-declare

EU-Index:

prohibited

Einecs/Elinecs No.:

2. Language: English

Name: AR-Fibre

Synonym: 1                      Man-made Fibre: Aramid-Fibre

Synonym: 2                      AR

Synonym: 3                      3.9

### Aramid-Fibre as an example for a man-made fibre

■ [Component](#)

● [Semi-component](#)

●● [Material](#)

▲ Basic Substance

[All MDS/Modules](#)

Name / Synonym:

CAS No.:

EU-Index:

Einecs-No.:

VDA category:

duty-to-declare: ☐ Yes ☐ No ☒ N.A.  
prohibited: ☐ Yes ☐ No ☒ N.A.

**Search for „Natural Fibre“ in the substance list of IMDS.**

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Search Criteria: Name=natural fibre\*,duty-to-declare=N.A.,prohibited=N.A.

Total records found: 60

No.	Name	CAS No.	EU-Index	Einecs-No.	Synonym	VD
4	<u>Alfa-fibre</u>	-	-	-	Natural Fibre:...	-
5	<u>Aloe-fibre</u>	-	-	-	Natural Fibre:...	-
6	<u>Alpaca-wool</u>	-	-	-	Natural Fibre:...	-
7	<u>Anaphe-fibre</u>	-	-	-	Natural Fibre:...	-
8	<u>Angora-wool</u>	-	-	-	Natural Fibre:...	-
9	<u>Arctic Fox-hair</u>	-	-	-	Natural Fibre:...	-
10	<u>Bear-hair</u>	-	-	-	Natural Fibre:...	-
11	<u>Beaver-hair</u>	-	-	-	Natural Fibre:...	-
12	<u>Bluish Dogbane-fibre</u>	-	-	-	Natural Fibre:...	-
13	<u>Broom-fibre</u>	-	-	-	Natural Fibre:...	-
14	<u>Byssus-fibre</u>	-	-	-	Natural Fibre:...	-
15	<u>Camel-hair</u>	-	-	-	Natural Fibre:...	-

**Result: List of 60 different kind of natural fibres in accordance with ISO 6938**

Please note that natural fibres are often called „?-hair“ or „?-wool“ and not only „?-fibre“.

### 3.2 Pigments

In many cases the fibres have a content of pigments (man-made fibres) or they are coloured by a colouring agent. The content of this agent/pigments which remains on (or in) the fibre has to be declared. If the substance is part of the GADSL-list, it has to be declared with his scientific name (Example: *Cobalt chromite blue spinell* as pigment).

Basic substance data:		VDA category:	
CAS No.:	68187-11-1	<input checked="" type="checkbox"/> duty-to-declare	
EU-Index:	-	<input type="checkbox"/> prohibited	
Einecs/Elinecs No.:	269-072-0		
2. Language: English			
Name:	Cobalt chromite blue green spinel		
Synonym: 1	C.I. Pigment Blue 36		
Synonym: 2			
Synonym: 3			

***Cobalt chromite blue spinell* as pigment. This pigment has to be declared on the substance level.**

Otherwise, if the substance is not part of the GADSL-list, the substance can be declared as wild card "Pigment portion". In this case the **sum** of "wild cards" must **NOT exceed 5%** of the material (colored fibre). In the case you have different types of colour (e.g. light and dark), you can describe the material by using the highest content of colour/pigments (worst case).

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## 3.3 Further Additives

Additives like flame retardants or water/dust repelling substances as they remain on the product have to be declared. If they are part of the GADSL-list, they have to be declared with their scientific name. Otherwise the following wild cards can be used:

Search Criteria: CAS No.=system,duty-to-declare=N.A.,prohibited=N.A.

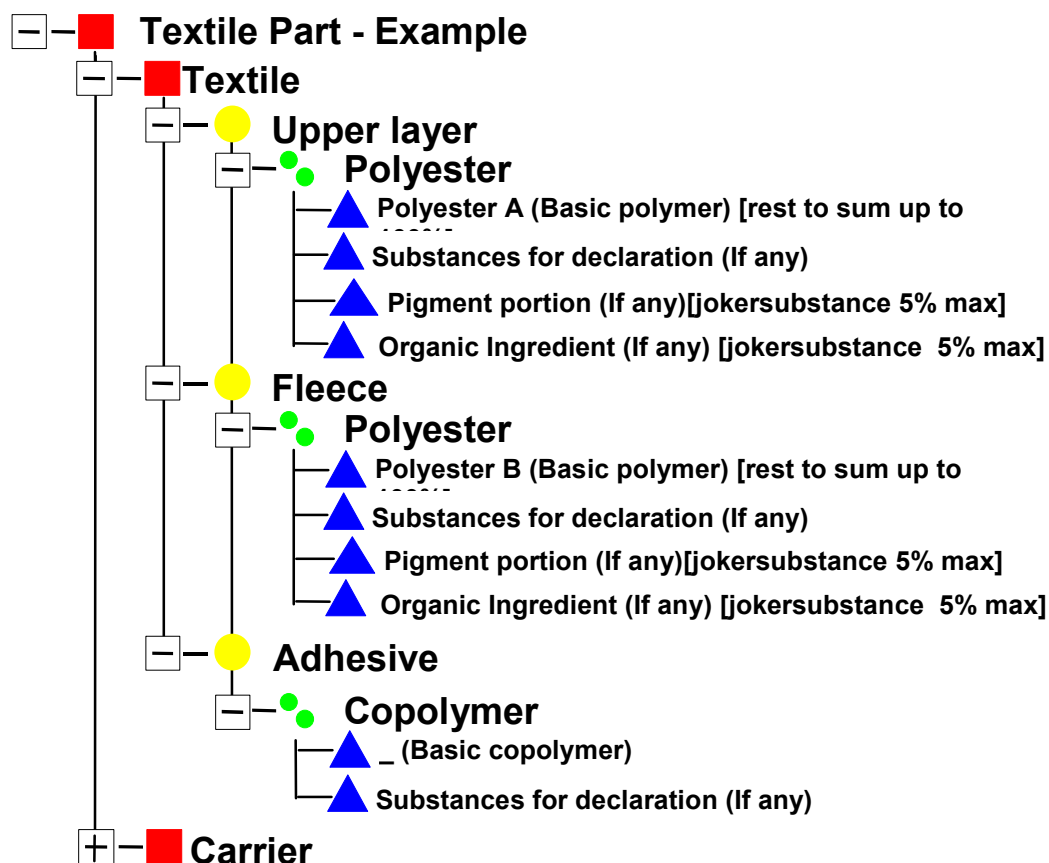
Total records found: 9

No.	Name	CAS No.	EU-Index	Einecs-No.	Synonym
1	Flame Retardant	system	system	system	-
2	Further Additives	system	system	system	Additives
3	Impactmodifier	system	system	system	
4	Inorganic Ingredient	system	system	system	Mineral Mater...
5	Misc.	system	system	system	Misc.
6	not yet specified	system	system	system	
7	Organic Ingredient	system	system	system	Natural Ingre...
8	Pigment portion	system	system	system	colorant

Wild cards which can be used to describe non declarable substances of the GADSL-list.

Please make shure that the sum of the wild cards doesnt exceed 5% of the material (by weight).

## 4 Examples





## 5 This document is recommended by

Adam Opel AG  
Bayerische Motoren Werke AG  
DaimlerChrysler AG  
Dr. Ing. h.c.F. Porsche AG  
Fiat Auto  
Ford Motor Company  
Toyota Motor Corporation  
Volkswagen Group  
Volvo Car Corporation

## 6 Release and Revisions

### 6.1 Release

The recommendation was first approved and released on February 2003.

### 6.2 Revision

Rev.	Date	Description / Reason	Originating Organization / Committee
02	June 2005	ILRS to GADSL	IMDS Material Services
01	July 2004	Man-made fibres and natural fibres added as basic substances in the data base, editorial changes.	IMDS-SC

## 7 Cooperation and Assistance

Expert group Textil  
Michael Pöhlig, Textil Association  
Fr. Dr. Oldenburg-Nazaruk, BMW  
Dr. Helmut Traiser, EDS