



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 or elastomer components like tires or fuel hoses. 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, ISO 2076 (Man-made fibres), ISO 6938 (Natural fibres)

3 Definitions**3.1 Material composition**

The fibre should be built up with homogeneous material which contains three kind of substances, Base Material (Fibre), Pigments and Additives.

- ▼  **Component**
 - ▼  **Material**
 -  **Base Material(Fibre), see the chapter 3.2**
 -  **Pigments, see the chapter 3.3**
 -  **Further additives, see the chapter 3.4**

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3.2 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”.

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

Name	CAS No.	EU-Index	EINECS-No.	Synonym	GADSL / SVHC
ALG-Fibre	-	-	-	Man-made Fibre: Alginate-Fibre	-
AR-Fibre	-	-	-	Man-made Fibre: Aramid-Fibre	-
CA-Fibre	-	-	-	Man-made Fibre: Acetate-Fibre	-
CF-Fibre	-	-	-	Man-made Fibre: Carbon-Fibre	-
CLF-Fibre	-	-	-	Man-made Fibre: Chlorofibre-Fibre	-
CLY-Fibre	-	-	-	Man-made Fibre: Lyocell-Fibre	-
CMD-Fibre	-	-	-	Man-made Fibre: Modal-Fibre	-
CTA-Fibre	-	-	-	Man-made Fibre: Triacetate-Fibre	-
CUP-Fibre	-	-	-	Man-made Fibre: Cupro-Fibre	-
CV-Fibre	-	-	-	Man-made Fibre: Viscose-Fibre	-
ED-Fibre	-	-	-	Man-made Fibre: Elastodiene-Fibre	-
EL-Fibre	-	-	-	Man-made Fibre: Elastane-Fibre	-
GF-Fibre	-	-	-	Man-made Fibre: Glass Fibre	-
GS-Flake	-	-	-	Man-made Fibre: GS-Flake	-
MAC-Fibre	-	-	-	Man-made Fibre: Modacrylic-Fibre	-
PA-Fibre	-	-	-	Man-made Fibre: Polyamide-Fibre	-
PAN-Fibre	-	-	-	Man-made Fibre: Acrylic-Fibre	-
PE-Fibre	-	-	-	Man-made Fibre: Polyethylene-Fibre	-
PES-Fibre	-	-	-	Man-made Fibre: Polyester-Fibre	-
PI-Fibre	-	-	-	Man-made Fibre: Polyimide-Fibre	-
PP-Fibre	-	-	-	Man-made Fibre: Polypropylene-Fibre	-
PTFE-Fibre	-	-	-	Man-made Fibre: Fluorofibre-Fibre	-
PVAL-Fibre	-	-	-	Man-made Fibre: Vinylal-Fibre	-

Menu Total records found 23

Result: List of man-made fibres in accordance with ISO 2076.

Basic Substance Node ID 9452929

CAS No. - GADSL Category [GADSL.org](#) REACH-SVHC No [?](#)
 EU-Index - duty-to-declare No Status active
 EINECS/ELINCS No. - prohibited No

Basic substance groups
 Fillers/reinforcing materials

English

Name AR-Fibre
 Synonym 1 Man-made Fibre: Aramid-Fibre
 Synonym 2 AR-Fiber
 Synonym 3 ISO 1043-2

German

Name AR-Faser
 Synonym 1 Chemiefaser: Aramidfaser
 Synonym 2 Kunstfaser: Aramidfaser
 Synonym 3 ISO 1043-2

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



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Substance Search Details

Search Criteria

Name / Synonym:

CAS No.:

EU-Index:

EINECS-No.:

GADSL: duty-to-declare:

GADSL: prohibited:

REACH-SVHC:

GADSL.org

Group:

Search for "Natural Fibre" in the substance list of IMDS.

View Menu Export

Name	CAS No.	EU-Index	EINECS-No.	Synonym	GADSL / SVHC
Abaca-fibre	-	-	-	Natural Fibre: Abaca-fibre	-
Abutilon-fibre	-	-	-	Natural Fibre: Abutilon-fibre	-
Akund-fibre	-	-	-	Natural Fibre: Akund-fibre	-
Alfa-fibre	-	-	-	Natural Fibre: Alfa-fibre	-
Aloe-fibre	-	-	-	Natural Fibre: Aloe-fibre	-
Alpaca-wool	-	-	-	Natural Fibre: Alpaca-wool	-
Anaphe-fibre	-	-	-	Natural Fibre: Anaphe-fibre	-
Angora-wool	-	-	-	Natural Fibre: Angora-wool	-
Arctic Fox-hair	-	-	-	Natural Fibre: Arctic Fox-hair	-
Basalt fibre	-	-	-	Natural Fibre: Basalt fibre	-
Bear-hair	-	-	-	Natural Fibre: Bear-hair	-
Beaver-hair	-	-	-	Natural Fibre: Beaver-hair	-
Bluish Dogbane-fibre	-	-	-	Natural Fibre: Bluish Dogbane-fibre	-
Broom-fibre	-	-	-	Natural Fibre: Broom-fibre	-
Byssus-fibre	-	-	-	Natural Fibre: Byssus-fibre	-
Camel hair	-	-	-	Natural Fibre: Camel hair	-
Cashmere-wool	-	-	-	Natural Fibre: Cashmere-wool	-
Cellulose fibre	-	-	-	Natural Fibre: Cellulose fibre	-
Coir-fibre	-	-	-	Natural Fibre:Coir-fibre	-
Cotton-fibre	-	-	-	Natural Fibre: Cotton-fibre	-
Cow-hair	-	-	-	Natural Fibre: Cow-hair	-
Deer-hair	-	-	-	Natural Fibre: Deer-hair	-
Eri-fibre	-	-	-	Natural Fibre: Eri-fibre	-
Ermine-hair	-	-	-	Natural Fibre: Ermine-hair	-
Fique-fibre	-	-	-	Natural Fibre: Fique-fibre	-
Flax-fibre	-	-	-	Natural Fibre: Flax-fibre	-
Goat-hair	-	-	-	Natural Fibre: Goat-hair	-
Guanaco wool	-	-	-	Natural Fibre: Guanaco wool	-
Hare-hair	-	-	-	Natural Fibre: Hare-hair	-
Hemp-fibre	-	-	-	Natural Fibre: Hemp-fibre	-
Henequen-fibre	-	-	-	Natural Fibre: Henequen-fibre	-
Horse-hair	-	-	-	Natural Fibre: Horse-hair	-
Jute-fibre	-	-	-	Natural Fibre: Jute-fibre	-
Kapok-fibre	-	-	-	Natural Fibre: Kapok-fibre	-
Kenaf-fibre	-	-	-	Natural Fibre: Kenaf-fibre	-
Llama wool	-	-	-	Natural Fibre: Llama wool	-
Maguey-fibre	-	-	-	Natural Fibre: Maguey-fibre	-
Marten-hair	-	-	-	Natural Fibre: Marten-hair	-
Mink-hair	-	-	-	Natural Fibre: Mink-hair	-
Mohair wool	-	-	-	Natural Fibre: Mohair wool	-
Muga-fibre	-	-	-	Natural Fibre: Muga-fibre	-
Muskkrat-hair	-	-	-	Natural Fibre: Muskkrat-hair	-
Nutria-hair	-	-	-	Natural Fibre: Nutria-hair	-
Otter-hair	-	-	-	Natural Fibre: Otter-hair	-
Phormium-fibre	-	-	-	Natural Fibre: Phormium-fibre	-
Pigs hair	-	-	-	Natural Fibre: Pigs hair	-
Punga-fibre	-	-	-	Natural Fibre: Punga-fibre	-
Rabbit-hair	-	-	-	Natural Fibre: Rabbit-hair	-
Ramie-fibre	-	-	-	Natural Fibre: Ramie-fibre	-
Reindeer-hair	-	-	-	Natural Fibre: Reindeer-hair	-
Roselle-fibre	-	-	-	Natural Fibre: Roselle-fibre	-
Sable-hair	-	-	-	Natural Fibre: Sable-hair	-
Seal-hair	-	-	-	Natural Fibre: Seal-hair	-
Silk-fibre	-	-	-	Natural Fibre: Silk-fibre	-
Sisal-fibre	-	-	-	Natural Fibre: Sisal-fibre	-
Sunn-fibre	-	-	-	Natural Fibre: Sunn-fibre	-
Tampico-fibre	-	-	-	Natural Fibre:Tampico-fibre	-
Tasar-fibre	-	-	-	Natural Fibre: Tasar-fibre	-
Urena-fibre	-	-	-	Natural Fibre: Urena-fibre	-
Vicuna wool	-	-	-	Natural Fibre: Vicuna wool	-
Weasel-hair	-	-	-	Natural Fibre: Weasel-hair	-
Wool	-	-	-	Natural Fibre: Wool	-
Yak wool	-	-	-	Natural Fibre: Yak wool	-

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Result: List of natural fibres in accordance with ISO 6938

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

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3.3 Pigments

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

Basic Substance		Node ID 254228		Basic substance groups	
CAS No.	68187-11-1	GADSL Category	GADSL.org	REACH-SVHC	No
EU-Index	-	duty-to-declare	Yes	Status	active
EINECS/ELINCS No.	269-072-0	prohibited	No		

Basic substance groups	
Cobalt or its compounds	
Renault Complete	
Renault Orange	

English	
Name	Cobalt chromite blue green spinel
Synonym 1	C.I. Pigment Blue 36
Synonym 2	
Synonym 3	

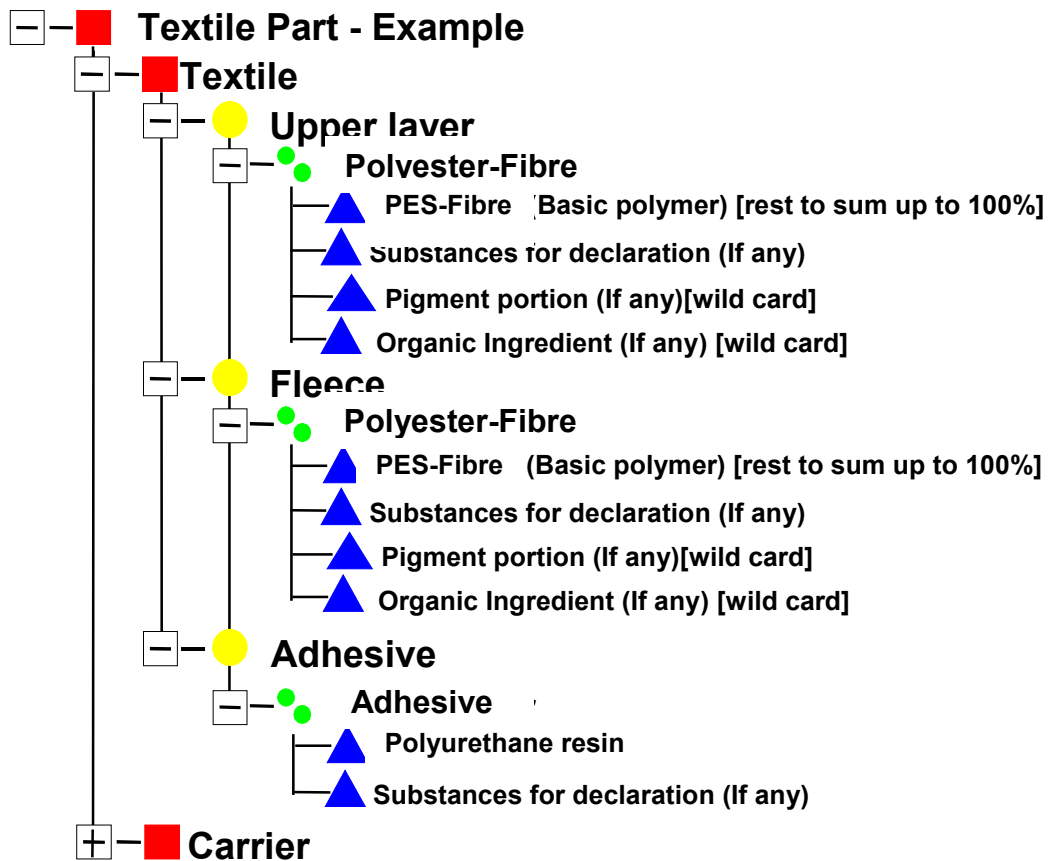
***Cobalt chromite blue spinel* as pigment. This pigment has to be declared on the substance level.**

Otherwise, the substance can be declared as wild card "Pigment portion, not to declare". 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).

3.4 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 GADSL, they have to be declared with their scientific name.

4 Examples





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IMDS Recommendation**IMDS 004****5 Release and Revisions****5.1 Release**

The recommendation was first approved and released on February 2003.

5.2 Revision

Rev.	Date	Description / Reason	Originating Organization / Committee
03	Feb. 2020	Alignment with Recommendation 001, focus on the unique requirements	IMDS J-SC
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