

Updated on 11-08-16

MICRO MESH

MFR - MFX

CHAPTER 1: Identification of the substance/mixture and of the company/undertaking

Company

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Responsible/issuing person: Bram Gillès

Product

Identification: MFR & MFX – abrasive cloths in belts, sheets, rolls
Application: Coated abrasive material used for sanding and finishing operations of various materials, including metals.

Imported notice

Coated abrasives are inert products which do not create any risk when handled or stored. When used on grinding machines they require specific measures to protect the operators. During the grinding operation 90% or more of the particulates of the dust come from the material being ground and, for wet grinding, from aerosols generated by the grinding fluid. Specific attention must therefore be given to the nature of the part and of the fluid and the appropriate protection devices must be installed.

CHAPTER 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified as hazardous according to the Globally Harmonized System (GHS).
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
The product is not classified as hazardous according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

Additional information:

Not hazardous as delivered. Long term inhalation of product dusts formed during use is harmful.

Avoid breathing dust.

To avoid risks to human health and the environment, comply with the instructions for use.

0 percent of the mixture consists of component(s) of unknown toxicity

There are no other hazards not otherwise classified that have been identified.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

This product does not have a classification according to the CLP regulation.

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

Hazard pictograms:	Not Regulated
Signal word:	Not Regulated
Hazard-determining components of labelling:	None.
Hazard statements	Not Regulated
Precautionary statements	Not Regulated
Additional information:	EUH210 Safety data sheet available on request

Hazard description:

WHMIS-symbols: Not hazardous under WHMIS.

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS Long Term Health Hazard Substances: 13463-67-7 Titanium dioxide

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

CHAPTER 3: Composition/information on ingredients

Substances:

Description: Mixture of substances listed below with nonhazardous additions

Dangerous components:

Substance	EINECS-Nr	CAS-Nr.	Concentration
Silicon carbide substance with a community workplace exposure limit	206-991-8	409-21-2	Variable %
Aluminium oxide substance with a community workplace exposure limit	1344-28-1	409-21-2	Variable %
Titanium dioxide substance with a community workplace exposure limit	236-375-5	13463-67-7	Variable %
Diiron trioxide / iron (III) oxide substance with a community workplace exposure limit	215-168-2	1309-37-1	Variable %

Additional information:

For the wording of the listed risk phrases refer to section 16.

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

Variable percentages used per OSHA §1910.1200 (g)(4).

CHAPTER 4: First aid measures

4.1 Description of first aid measures

General information: Avoid breathing dust. Description of first aid measures

If inhaled: Supply fresh air; consult doctor in case of complaints.

In case of skin contact: Wash with soap and water. If skin irritation is experienced, consult a doctor.

In case of eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If swallowed: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

CHAPTER 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: None

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: No further relevant information available.

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information: No further relevant information available.

CHAPTER 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

CHAPTER 7: Handling and storage

7.1 Precautions for safe handling

Avoid breathing dust.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Protect from humidity and water.

Further information about storage conditions: None.

7.3 Specific end use(s)

No further relevant information available.

CHAPTER 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Components	CAS-No.	Agency	mg/m ³
Silicon Carbide	409-21-2	PEL (USA)	Long-term value: 15* 5** mg/m ³ Fibrous dust: *total dust **respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
		TLV (USA)	Long-term value: 10* 3** mg/m ³ Fibrous dust: 0,1 f/cc; nonfibrous: *inh., **resp.
		EL (Canada)	Long-term value: 10* 3** mg/m ³ *inhalable; **respirable
		EL (Canada)	Long-term value: 10* 3** mg/m ³ , 0,1 f/cc*** ppm Nofibrous: * inh., **resp., ***fibrous, resp.
		Aluminium oxide	1344-28-1
		REL (USA)	Long-term value: 10* 5** mg/m ³ as Al *total dust **respirable / pyro powd. / welding f.
		TLV (USA)	Long-term value: 1*mg/m ³ as Al *as respirable fraction
		EL (Canada)	Long-term value: 1,0* mg/m ³ Respirable, as Al
		EV (Canada)	Long-term value: 10 mg/m ³ Total dust
Titanium dioxide	13463-67-7	PEL (USA)	Long-term value: 15* mg/m ³ *total dust
		REL (USA)	See pocket Guide App. A
		TLV (USA)	Long-term value: 10 mg/m ³ Withdrawn from NIC
		EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust, **respirable fraction; IARC 2B
		EV (Canada)	Long-term value: 10 mg/m ³ Total dust
Diiron Trioxide / iron (III) oxide	1309-37-1	PEL (USA)	Long-term value: 10* 15** 5*** mg/m ³ *Fume; Rouge: **Total Dust, ***respirable
		REL (USA)	Long-term value: 5mg/m ³ Dust & fume , as Fe
		TLV (USA)	Long-term value: 5* mg/m ³ *as respirable fraction
		EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 5* 10*** 3**** mg/m ³ *dust & fume **fume; Rouge: ***total dust ****resp.
		EV (Canada)	Long-term value: 5* 10** mg/m ³ *respirable, including Rouge; **total dust

DNELs No further relevant information available.

PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Respiratory protection:

Protection of hands:

Eye protection:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed.

NIOSH or EU approved dust respirator is highly recommended when ventilation is poor. Use respiratory protection when grinding or cutting material.

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

Safety glasses



Body protection:

Limitation and supervision of exposure into the environment:

Risk management measures:

Light weight protective clothing

No special requirements.

No special requirements.

CHAPTER 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Solid material

Colour:

According to product specification

Odour:

Rubber/Plastic

Odour threshold:

Not determined.

pH-value:

Not applicable.

Change in condition

- Melting point/Melting range: Not Determined.
- Boiling point/Boiling range: Undetermined.

Flash point:

Not applicable.

Flammability (solid, gaseous):

Not determined.

Auto/Self-ignition temperature:

Not determined.

Decomposition temperature:

Not determined.

Self-igniting:

Product is not self-igniting.

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:

- Lower: Not determined.
- Upper: Not determined.

Vapour pressure:

Not applicable.

Density:

Not determined.

Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water:	Soluble.
Partition coefficient (n-octanol/water):	Not determined.

Viscosity:

- **Dynamic:** Not applicable.
- **Kinematic:** Not applicable.

9.2 Other information

No further relevant information available.

CHAPTER 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with strong acids and alkali.

Reacts with strong oxidising agents.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Under fire conditions only:

Toxic metal oxide smoke

CHAPTER 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification: None.

Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

Sensitisation: No sensitising effects known.

Subacute to chronic toxicity: No further relevant information available.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Repeated dose toxicity:

Repeated or long-term inhalation of product dusts may cause pulmonary disease.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): See Section 15.

CHAPTER 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

CHAPTER 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

CHAPTER 14: Transport information

Land transport (ADR/RID)

UN number	No dangerous goods
Proper shipping name	No dangerous goods
Transport hazard class	No dangerous goods
Packing group	No dangerous goods
Environmental hazards	No dangerous goods

Marine transport (IMDG/IMO)

UN number	No dangerous goods
Proper shipping name	No dangerous goods
Transport hazard class	No dangerous goods
Packing group	No dangerous goods
Environmental hazards	No dangerous goods

Air transport (IATA/ICAO)

UN number	No dangerous goods
Proper shipping name	No dangerous goods
Transport hazard class	No dangerous goods
Packing group	No dangerous goods
Environmental hazards	No dangerous goods

Special precautions for users See this safety data sheet chapter 6 & 8

DEEL 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- United States (USA)
- SARA

Section 335 (extremely hazardous substances):

None of the ingredients are listed

Section 313 (specific toxic chemical listings):

1344-28-1 Aluminium oxide

TSCA (Toxic Substances Control Act):

None of the ingredients are listed

Proposition 65 (California):

Chemicals known to cause cancer:

13463-67-7 Titanium dioxide

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed

Chemicals known to cause development toxicity

None of the ingredients are listed

Carcinogenic Categories:

EPA (Environmental Protection Agency)

None of the ingredients are listed

IARC (International Agency for Research on Cancer)

13463-67-7	Titanium dioxide	2B
1309-37-1	Diiron trioxide / iron (III) oxide	3

TLV (Treshold Limit Value established by ACGIH)

409-21-2	Silicon Carbide	A2
1344-28-1	Aluminium Oxide	A4
13463-67-7	Titanium dioxide	A4
1309-37-1	Diiron trioxide / iron (III) oxide	A4

NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7	Titanium dioxide
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Canada:

Canadian Domestic Substances List (DSL)

All ingredients are listed

Canadian Ingredient Disclosure list (limit 0,1%)

None of the ingredients are listed

Canadian Ingredient Disclosure list (limit 0,1%)

1344-28-1	Aluminium Oxide
1309-37-1	Diiron trioxide / iron (III) oxide

Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

DEEL 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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