



**MATERIAL SAFETY DATA SHEET**  
According to 1907/2006/CE regulations

Date: November 2013

**MERAFLEX FIBRA CORTA - POLYOLEFIN FIBRE**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Commercial Product name:** **MERAFLEX**  
**Commercial Code:** STAPLE : 55034000 – 000  
Type 1504-1506-1508-1512-1518-1524  
3504-3506-3508-3512-3518-3524

**Application**

- Short cut fibre for wet laid applications (concrete, mortar and cement reinforcement).

**Manufacturer/Distributor:**

**Beaulieu Fibres International Terni S.r.l.**  
P.le Donegani, 4  
05100 Terni - Italy  
Tax code/VAT 01511920553  
Phone +39 0744 399.11 Fax +39 0744 399.2652

**Technical support:** ++39/0744/399.2731

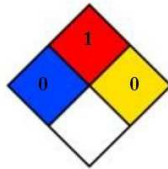
**Telephone numbers for urgent calls**

++39/0744/399.11 (office timetable 8:00–17:00, from monday to friday)  
++39/0744/399.2563 (office timetable 8:00–17:00, from monday to friday)

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**2. HAZARDS IDENTIFICATION**

This product has not been associated with any known negative effects on humans or ecological risks under normal use.



NFPA 704 normative:

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Description name: POLYPROPYLENE SYNTHETIC FIBRE

The product contains no hazardous ingredients for safety according to the European directive 67 / 548 / CEE

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**4. FIRST AID MEASURES**

Eyes: No specific treatment is necessary  
Skin: No specific treatment is necessary  
Ingestion: No specific intervention is indicated  
Inhalation: No specific intervention is indicated

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**Meraklon®**

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**5. FIRE FIGHTING MEASURES**

The product is "not-flammable" as defined in the Art. 2 of the CEE dir n° 67 / 458, but it is combustible

Combustion products

On direct exposure to flame Meraklon ignites and burns evolving water, carbon dioxide and, in case of uncomplete combustion, a relevant amount of carbon monoxide. The combustion products are toxic and irritant.

Decomposition products

During the first steps of combustion (between 400 and 700°C), the fibres generate products like hydrocarbons and aldehydes.

Extinguishing media

Water spray, foam, dry powder of CO<sub>2</sub>, halon.

Fire Fighting Instructions

A breathing apparatus and suitable protective equipment should be worn to fight fire.

First aid measures

In the case of inhalation of combustion gaseous products bring patient at fresh air. Keep the person hot and if necessary practice the artificial breathing. Then consult immediately a doctor.

**6. ACCIDENTAL RELEASE MEASURES**

NONE. The dispersion of the product in the environment has the typical consequences of the dispersion of plastics manufacture.

**7. HANDLING AND STORAGE**

Handling

As a polymeric substance with high molecular weight, Meraklon has to be considered a physiologically inert material and its handling involves no specific risk for the health of the operators. The small quantities of additives (stabilizers, anti-oxidant, pigments, lubricants) included into the fiber do not represent any additional risk. The usual hygiene and safety measures of personnel and at workshop must be adopted.

Storage

Meraklon may react with strong oxidizing agents and should not be stored near such materials. Keep the product away from all sources of intense heat, flames or sparks and avoid the direct exposure to the sun rays. Natural ventilation is sufficient.

As a not electrical conductive material it can accumulate static electricity.

Remarks

As far as the fiber behaviour at high temperature is concerned, reference is made to the extrusion temperature (230-280 °C): various gaseous products can develop such as propylen monomer, low molecular weights, and oxygenated products (formaldehyde: TLV-TWA 1ppm ; acroleyn: TLV-TWA 0.1 ppm ; formic acid: TLV-TWA 5ppm ; acetic acid : TLV-TWA 10 ppm).

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Formaldehyde monitored at work surroundings gave formaldehyde levels lower than limit of measurement (0,03 mg/Nm<sup>3</sup>). While at workplace acrolein gave values ranging from 0 mg/Nm<sup>3</sup> to 0.13 mg/Nm<sup>3</sup>.

There are no data at lower temperatures. Therefore it is appropriate to avoid the inhalation of the fumes eventually evolved and to supply fresh air.

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

The exposure limits are not established being Meraklon solid with vapour pressure virtually nil.

**9. PHYSICAL AND CHEMICAL PROPERTIES.**

Form:	solid
Colour:	white or pigmented
Odour:	none
Solubility (water):	not soluble
Solubility (organic solvents):	soluble in hot aromatic and aliphatic chlorinated solvents
Density (g/ml):	0.91
Vapour Density:	not applicable
Melting Point (°C):	160 - 170
Boiling Point (°C):	Decomposition starts at 330
Flash Point (°C):	≥ 400
Vapour Pressure:	not applicable

**10. STABILITY AND REACTIVITY**

Chemical Stability:	Stable
Condition to avoid:	Contact with oxidizing agents and with all sources of intense heat, flame or sparks.

**11. TOXICOLOGICAL INFORMATION**

Meraklon is to be considered a inert material both from chemical and biological point of view, therefore its handling involves no specific risk for the operators.

**12. ECOLOGICAL INFORMATION**

The product is not associated with any known ecological problems; though being not biodegradable, as Meraklon lends itself well to recycling.

**13. DISPOSAL CONSIDERATIONS**

In accordance with DPR 915 of 10.09.1982 and with successive decision of the Comitato Intermin. Of 27.07.1984, regarding to its disposal as refuse, Meraklon is included in the classification of

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substances neither toxic nor damaging. In particular, being considered as a city waste, it can be left in 1<sup>st</sup> category landfill.

**14. TRANSPORT INFORMATION**

Meraklon is regulated as not a dangerous good as defined by the following regulations:

- Land transport:       ADR/RID and GGVS/E class
- Maritime transport:   IMDG/GGV Sea class
- Air transport:         ICAO/IATA class

**15. REGULATORY INFORMATION**

Directive 67/548/CEE   DM 16/02/93  
Directive 88/379/CEE   DM 28/01/92  
Directive 199/45/CE

Classification and Labelling:

No special classification or labelling is required according to EEC Directive 67/548 as amended.

**16. OTHER INFORMATION**

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. Meraklon S.p.A. takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.

**REFERENCES**

1. Directive 67/548/EEC (G.U. CEE N° 196-16/8/1967) and amendment
2. Directive 79/831/CEE (G.U. CEE N° L259-15/10/1979)
3. D.M. 16/02/1993 (Ordinary supplement to G.U. N° 116 , 20/05/1993)
4. Directive 1999/45/CE (G.U. CE L200-30/07/1999)
- 5) Directive 94/55/CE (21 NOVEMBRE 1994)
- 6) Directive 96/49/CE (23 LUGLIO 1996)
- 7) D.M. N° 46, 18/01/1992 (G.U. N° 50-28/01/1992)
- 8) RTECS (REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES 1985-1986 EDITION)
- 9) EINECS (G.U. CEE N° C146A-15/06/1990)
- 10) Directive 98/24/CE
- 11) Regulations N°1907/2006/CE (REACH)