



MATERIAL SAFETY DATA SHEET

According to (CE) 1907/2006(REACH), (CE) 1272/2008 (CLP), (UE) 2020/878

MERAKLON POLYPROPYLENE FIBRE - FDA

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 **Product identifier:** **MERAKLON**
Commercial Code: STAPLE : 55034000 – 000

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
Polypropylene fiber suitable for industrial filtration/food. All components used in the fiber are included in the positive lists of the Federal Register, Vol. 21, 1986 (U.S. Food and Drug Administration).

1.3 **Details of the supplier of the safety data sheet**

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 399.2308

1.4 **Emergency telephone numbers**

RSP Reference, e-mail: matteo.agostini@bintg.com

+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)

2. HAZARDS IDENTIFICATION

2.1 **Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 (CLP): Not classified as dangerous.
This product has not been associated with any known negative effects on humans or ecological risks under normal use.

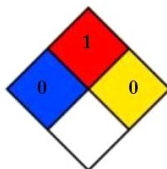
2.2 **Label elements**

According to Regulation (EC) No. 1272/2008 (CLP): Not classified as dangerous

2.3 **Other hazards**

It is a combustible substance and as such should be avoided contact with oxidizing and / or flames.

NFPA 704 normative:



3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances:** **POLYPROPYLENE SYNTHETIC FIBRE**

The product contains no hazardous ingredients for safety according to the European directive CE 1907/2006 (REACH), CE 1272/2008 (CLP), (UE) 2020/878.

MATERIAL SAFETY DATA SHEET

According to (CE) 1907/2006(REACH), (CE) 1272/2008 (CLP), (UE) 2020/878

MERAKLON POLYPROPYLENE FIBRE - FDA

4. FIRST AID MEASURES

4.1 Description on 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



4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatments needed

None

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable: water spray, foam, powder, carbon dioxide, halon.

Unsuitable: unknown

5.2 Special hazards arising from the substance or mixture

On direct exposure to flame the product ignites and burns evolving water, carbon dioxide and, in case of uncompleted combustion, a relevant amount of carbon monoxide. The combustion products are toxic and irritant. During the first steps of combustion (between 400 and 700°C), other products may be generated like hydrocarbons and aldehydes (acetic, crotonic).

5.3 Advice for firefighters

Always wear full fire prevention gear.

Calorific value: 8,000 - 11,000 Kcal / Kg

Extinguish flames from a safe distance, with hoses or monitoring nozzles.

Stay clear of burning material. Cool the material with large quantities of water, even after the fire has been extinguished.

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

None.

6.2 Environmental precautions

The dispersion of the product in the environment has the typical consequences of the dispersion of plastic materials.



MATERIAL SAFETY DATA SHEET

According to (CE) 1907/2006(REACH), (CE) 1272/2008 (CLP), (UE) 2020/878

MERAKLON POLYPROPYLENE FIBRE - FDA

6.3 Methods and materials for containment and cleaning up

The material is solid, insoluble in water: collect all the material using a suitable broom and / or suction system. Put the collected material in suitable containers to be packaged, labeled, transported and disposed of or regenerated in compliance with the laws in force. Regenerate everything possible..

6.4 Reference to other sections

See sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe 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 fibre do not represent any additional risk.

The usual hygiene and safety measures of personnel and at workshop must be adopted.

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

Formaldehyde monitored at work surroundings gave formaldehyde levels lower than limit of measurement (0,03 mg/Nm³). While at workplace acroleine gave values ranging from 0 mg/Nm³ to 0.13 mg/Nm³.

There are no data for lower temperatures and in particular for those typical of Polypropylene fiber processing, such as calendaring (150/155 ° C) or carpet latticing (120/130 ° C), currently carried out for the transformation of the fiber into products finished. Therefore it is appropriate to avoid the inhalation of the fumes eventually evolved and to supply fresh air.

7.2 Conditions for safe 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.

7.3 Specific end use(s)

Transformation into non-wovens and textiles in general.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure controls

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

MATERIAL SAFETY DATA SHEET

According to (CE) 1907/2006(REACH), (CE) 1272/2008 (CLP), (UE) 2020/878

MERAKLON POLYPROPYLENE FIBRE - FDA

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical State: | SOLID |
| Colour: | Natural white |
| Odour: | Odorless or typical odour |
| Melting Point: | 160 - 170 °C |
| Boiling Point: | NOT APPLICABLE |
| Flammability: | It is a combustible substance but does not burn easily. Avoid contact with flames and / or strongly oxidizing substances. |
| Limite inferiore e superiore di esplosività: | NOT APPLICABLE |
| Punto di infiammabilità: | NOT APPLICABLE |
| Flash point: | ≥ 400 °C |
| Decomposition temperature: | Decomposition start at 330°C |
| pH: | NOT APPLICABLE |
| Kinematic viscosity: | NOT APPLICABLE |
| Solubility (water): | NOT SOLUBLE |
| Solubility (organic solvents): | SOLUBLE IN HOT AROMATIC AND ALIPHATIC CHLORINATED SOLVENTS |
| Partition coefficient n-octanol / water: | NOT APPLICABLE |
| Vapor pressure: | NOT APPLICABLE |
| Relative density 0 20 ° C: | 0,91 g/cm ³ |
| Relative vapor density: | NOT APPLICABLE |
| Particle characteristics: | Synthetic staple fiber. filament diameter 30 microns; filament length: 40-60mm |

9.2 Other information

None.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable in normal conditions.

10.2 Chemical stability

The product is stable. In normal conditions the material is considered to be inert.

10.3 Possibility of hazardous reactions

It 's a combustible material, avoid contact with strong oxidizing substances, open flame

10.4 Conditions to avoid

Avoid contact with oxidizing agents and with all sources of intense heat, flame or sparks.

Avoid the formation of electrostatic charges during storage.

Avoid contact with aromatic and chlorinated aliphatic hydrocarbons.

MATERIAL SAFETY DATA SHEET

Fibres

According to (CE) 1907/2006(REACH), (CE) 1272/2008 (CLP), (UE) 2020/878

MERAKLON POLYPROPYLENE FIBRE - FDA

10.5 Incompatible materials

Highly oxidizing agents.

10.6 Hazardous decomposition products

Above 330 ° C fumes can be released containing: carbon monoxide, carbon dioxide, monomers, aldehydes, organic acids.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in regulation (CE) 1272/2008

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

| | |
|--|-----------------------------------|
| Acute toxicity: | Not classified |
| Skin corrosion / skin irritation: | It does not cause skin irritation |
| Respiratory or skin sensitization: | Not classified |
| Germ cell mutagenicity: | Not classified |
| Cancerogenicity: | Not classified |
| Reproductive toxicity: | Not classified |
| Specific target organ toxicity (STOT) - single exposure: | Not classified |
| Specific target organ toxicity (STOT) - repeated exposure: | Not classified |
| Danger Aspiration | Not applicable |

11.2 Information on other hazards

None

12. ECOLOGICAL INFORMATION

12.1 Toxicity

None.

12.2 Persistence and degradability

The product is not biodegradable.

12.3 Bioaccumulative potential

None.

12.4 Mobility in soil

None: dispersion into the environment has the consequences characteristics of the manufactured articles or semi-finished plastic materials. Avoid dispersion into the environment.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6 Endocrine disrupting properties

None.

12.7 Other adverse effects

None.

MATERIAL SAFETY DATA SHEET

Fibres

According to (CE) 1907/2006(REACH), (CE) 1272/2008 (CLP), (UE) 2020/878

MERAKLON POLYPROPYLENE FIBRE - FDA

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

All recovered material must be packaged, labeled, transported and disposed of or regenerated in compliance with the laws and regulations in force.
The material is recyclable (if properly segregated).

14. TRANSPORT INFORMATION

| | |
|--|------|
| 14.1 UN Number or ID number: | none |
| 14.2 UN proper shipping name: | none |
| 14.3 Transport hazard class(es): | none |
| 14.4 Packing group: | none |
| 14.5 Environmental hazard: | none |
| 14.6 Special precautions for the users: | none |
| 14.7 Transport in bulk according to IMO instruments: | none |

15. REGULATORY INFORMATION

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

| | |
|----------------------|-------------------------------------|
| Directive 67/548/CEE | DM 16/02/93 |
| Directive 88/379/CEE | DM 28/01/92 |
| Directive 199/45/CE | Regulation (EC) n.1907/2006 (REACH) |
| Directive 2012/18/UE | Regulation (EC) n.1272/2008 (CLP) |
| | Regulation (UE) n.2020/878 |

The product is not subject to classification according to EU lists and other sources of literature.

15.2 Chemical safety assessment

The product is stable. In normal conditions the material is considered to be inert.

16. OTHER INFORMATION

The Beaulieu Fibres International Terni S.r.l. requires all those who receive this Safety Data Sheet (MSDS) to study it carefully and consult appropriate expertise, if necessary, in order to understand the data and the dangers associated with this product

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.

Beaulieu Fibres International Terni S.r.l. takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.



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According to (CE) 1907/2006(REACH), (CE) 1272/2008 (CLP), (UE) 2020/878

MERAKLON POLYPROPYLENE FIBRE - FDA

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) Regulation N°1907/2006/CE (REACH)
- 12) Regulation CE N° 1272/2008 (CLP)
- 13) Regulation (EU) N ° 2015/830
- 14) Regulation (EU) N° 2020/878

Changes compared to the previous revision

Variations have been made to the following sections:

- 4, 5, 9, 11, 12, 13, 14, 15