MATERIAL SAFETY DATA SHEET

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

POLYPROPYLENE FIBER –

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

1.1 **Product identifier:**
Commercial Code:

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
Polypropylene synthetic fiber for the production of non-woven fabrics for GEOTEXTILE application.

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

1.4 **Emergency telephone numbers**

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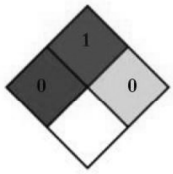
2. HAZARDS IDENTIFICATION

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:



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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.

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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. Avoid dispersion in the environment.

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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.

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7. HANDLING AND STORAGE

7.1 **Precautions for safe handling**
As a polymeric substance with high molecular weight, 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/Nm^3). While at workplace acroleine gave values ranging
from 0 mg/Nm^3 to 0.13 mg/Nm^3.

There are no data for lower temperatures and in particular for those typical of Polypropylene fiber processing, such as calendering (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**
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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**

8.2 **Exposure controls**
The exposure limits are not established being solid with vapour pressure virtually nil.

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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.
Lower and upper explosion limits:	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 21-31 microns; filament length: 60-90 mm

9.2 Other information

None.

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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.

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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.

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11. TOXICOLOGICAL INFORMATION

11.1 **Information on hazard classes as defined in regulation (CE) 1272/2008**
[illegible] 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
Cencerogenicity:	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

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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.

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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).

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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

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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.

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16. OTHER INFORMATION

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.

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

POLYPROPYLENE FIBER –

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