

## MATERIAL SAFETY DATA SHEET

### 1. Product and company identification

#### 1.1. Trade name

PP GLASS FIBER

#### 1.2. Company details

Recreus Industries S.L.,  
C/EI Envelope, F13-F14. Pol. Ind. Finca Lacy  
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### 2. Hazards identification

**2.1 Classification of the substance or mixture:** Not applicable

**2.2 Label elements:** Not applicable

**2.3 Other hazards:** The mixture does not contain any substance included in the list established in accordance with Article 59(1) of REACH as having endocrine disrupting properties in a substance that is not listed in the list.

Article 59(1) of REACH as having endocrine disrupting properties at a concentration equal to or greater than 0,1 % by weight. concentration equal to or greater than 0,1 % by weight. The mixture does not contain any substances that have endocrine disrupting properties according to the criteria set out in the REACH Regulation in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 Regulation (EU) 2018/605 in a concentration equal to or greater than 0,1 % by weight.

Information concerning other hazards, other than those of the classification, which may contribute to the overall hazard of the product can be found in sections 5, 6 and 7 of this SDS.

### 3. Composition/information on ingredients

**3.1 Substances:** Not applicable

**3.2 Mixtures:**

Name	Product identifier	%	Index number
glass fiber	(CAS-No.) 165997-17-3 (EC-No.) 266-046-0	15%	650-016-00-2

## 4. First aid measures

### 4.1 Description of first aid measures

- **Inhalation:** Move the person to fresh air. Administer oxygen if necessary.
- **Ingestion/Aspiration:** It is not frequent. Intestinal absorption is very low.
- **Contact skin:** In case of burns with the molten polymer quickly cool material with abundant water. Do not remove the solidified product off burn without medical assistance. See a doctor and treat it as a normal burn.
- **Contact eyes:** In case of burns with the molten polymer quickly cool material with abundant water. Do not remove the solidified product off burn without medical assistance. See a doctor and treat it as a normal burn. In case of contact with eyes wash with plenty of water if necessary, keeping your eyes open for at least 15 minutes.

### 4.2 Most important symptoms and effects, both acute and delayed

- **Inhalation:** Powder polypropylene may be irritating to the nose and throat. Vapors from melted products may cause irritation to the respiratory tract.
- **Ingestion/Aspiration:** This type of exposure is easy to prevent and infrequent. Not toxic if swallowed.
- **Contact skin:** Contact with molten products may cause burns.
- **Contact eyes:** Vapors from melted product and powdery material may be irritating to the eyes. Contact with molten products may cause burns.

### 4.3 Indication of any immediate medical attention and special treatment needed

Seek medical care.

## 5. Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** AFFF foam, dry chemicals powder, CO<sub>2</sub>, and water spray.

**Unsuitable extinguishing media:** Water applied directly in a jet stream may disperse the product.

### 5.2. Special hazards arising from the substance or mixture

**Combustion products:** Complete combustion: CO<sub>2</sub>, and H<sub>2</sub>O. Incomplete combustion: CO, soot, aldehydes, ketones, hydrocarbons and volatile fatty acids.

**Special measures:** N/A.

**Special hazards:** Molten polymer may spread fire. Fire may produce irritating gases.

### 5.3. Advice for firefighters:

Clothing and gloves resistant to fire and SCBA.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust. Follow standard emergency procedures. Wear appropriate personal protective equipment (See section 8).

### 6.2. Environmental precautions

Avoid spillages to sewer and waterways, and avoid dispersion of the product.

### 6.3 Methods and material for containment and cleaning up

To prevent slipping and sliding, spills should be collected with shovels or other means and placed into suitable containers.

### 6.4 Reference to other sections

Section 8 contains more detailed advice on personal protective equipment and section 13 on waste disposal.

## 7. Handling and storage

### 7.1. Precautions for safe handling

**General precautions:** Do not smoke, eat, or drink while handling products.

Wear appropriate protective equipment in the areas of handling molten products.

Remove all sources of ignition in the area of product handling and storage.

Transport equipment should be properly grounded (static charge accumulation by friction).

Ensure safe systems of work.

**Specific conditions:** Good local exhaust ventilation system.

Protective mask in presence of vapors from melted product and powdery material.

**7.2 Conditions for safe storage, including any incompatibilities**

**Temperature and decomposition products:** The product is stable under normal conditions.

**Dangerous reactions:** N/A

**Storage conditions:** Storage at room temperature and protect it from sunlight in cool and well ventilated places.

Storage in properly labeled and sealed containers.

Protect containers from fire.

Eliminate all possible sources of ignition.

Polymer has a marked tendency to build up static charge when transferred by pneumatic transport, so proper grounding should be ensured.

Never weld in storage areas without proper precautions.

**Incompatible materials:** Chlorine, fuming nitric acid and strong oxidizing agents.

**7.3 Specific end use(s)**

See section 1 or exposure scenario.

**8. Exposure controls/personal protection**

**8.1 Control parameters**

Product Name	Workplace exposure limit
Talc (CAS 14807-96-6)	WEL TWA (mg/m <sup>3</sup> ) 2 mg/m <sup>3</sup> Talc, respirable dust; United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
Glass fiber (CAS 65997-17-3)	Directive 2004/37/EC - CMR at work Annex I part A respirable fraction VLA 0.3 fiber/ml

**DNEL:** Not available.

**PNEC:** Not available.

## 8.2 Exposure control

Local appropriate ventilation. Do not smoke and avoid all ignition sources. Avoid prolonged contact and inhalation of vapors.

### Individual protection measures, such as personal protective equipment

**Ventilation:** During fused deposition modeling operations, use with ventilation adequate to reduce levels of air contaminants below that which may cause personal injury or illness. Local exhaust ventilation that removes air contaminants from the breathing zone is preferred. General, mechanical, or dilution ventilation may be suitable.

**Respiratory protection:** Respiratory protective mask when melted product vapors or dust are present.

**Skin protection:** Gloves, appropriate footwear and clothing.

**Eye/face protection:** Safety goggles to avoid splashes when handling melted product.

**Other protective equipment:** Showers and eye-washers in the work area.

**Specific hygiene measures:** Good work practices and the adoption of good personal hygiene measures reduce unnecessary exposures. Showers should be used. Use soap and no other solvents. Use skin reconditioning cream after work.

### Environmental exposure controls:

Product should not reach the environment through wastewater or sewage. Measures to take in case of accidental release can be found in Section 6 of this information note about product safety.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Solid (filament)
Odour:	Odorless
Odour Threshold:	N/A (*)
Colour:	Natural / Black
pH:	N/A (*)
Boiling Point (°C):	N/A (*)
Melting point/freezing point (°C):	>120°C

Flash point:	> 320°C
Evaporation Rate:	N/A (*)
Properties Flammable/Explosive:	Will burn if affected by flame
Vapor pressure/vapor density:	N/A (*)
Density:	1.000-1.050 g/cm <sup>3</sup> (ASTM-D-1505)
Solubility/ies:	N/A (*)
Partition coefficient:	n-octanol/water: N/A (*)
Auto-ignition temperature:	N/A (*)
Decomposition temperature:	N/A (*)
Viscosity:	N/A (*)
Explosive properties:	N/A (*)
Oxidising properties:	N/A (*)

## 9.2 Other information

Heat of combustion: N/A (\*)

Water solubility: Insoluble.

(\*) No data available at the time of writing or because it is not applicable due to the nature and danger of the product.

## 10. Stability and reactivity

**Reactivity:** N/A

**Chemical stability:** Stable material at room temperature. The powder polymer may explode.

**Possibility of hazardous reactions:** Chlorine, fuming nitric acid and strong oxidizing agents.

**Conditions to avoid:** Avoid direct contact with the flames and high temperatures.

**Incompatible materials:** N/A

**Hazardous decomposition products:** Decomposition products: At temperatures above 300°C it decomposes emitting hydrocarbons. Complete combustion products: CO<sub>2</sub>, and

H<sub>2</sub>O. Incomplete combustion products: CO, soot, aldehydes, ketones, hydrocarbons and volatile fatty acids.

## 11. Toxicological information

### 11.1 Information on toxicological effects

The provided toxicological information results from the application of Annexes VII to XI of Regulation 1907/2006 (REACH).

**Acute toxicity:** ETA > 5000 mg/kg

**Skin corrosion/irritation:** N/A

**Respiratory or skin sensitisation:** N/A

**Germ cell mutagenicity:** N/A

**Carcinogenicity:** N/A

**Reproductive toxicity:** N/A

**STOT-single exposure:** N/A

**STOT-repeated exposure:** N/A

**Aspiration hazard:** N/A

## 12. Ecological information

Based on the available data, the criteria for classification as hazardous to the aquatic environment are not met. the aquatic environment are not met.

**Toxicity:** No data on toxicity to aquatic organisms.

**Persistence and degradability:** The product has long hydrocarbon insoluble chains, which makes biodegradation not easy. Not easily removed from water or soil and has a high persistence in the environment.

**Bioaccumulative potential:** No bioaccumulative problems in living organisms or incidence in the trophic food web are expected.

**Mobility in soil:** N/A

**Results of PBT and vPvB assessment:** This mixture contains no substance considered to be PBT or vPvB according to Regulation (CE) No 1907/2006, appendix XIII.

**Endocrine-disrupting:** This mixture does not contain any substances that have endocrine disrupting properties related to the environment, as assessed according to the criteria laid down in the properties as assessed in accordance with the criteria laid down in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) No 2018/605, at a concentration equal to or exceeding Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

**Other adverse effects:** N/A

## 13. Disposal considerations

### 13.1. Waste treatment methods

**Disposal:** Recycle material when possible. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Handling:** Labeled and sealed containers.

**Provisions:** Establishments and companies which recover, dispose, store, transport or handle waste should comply with Dir. 2008/98/EC on waste, or other local, national or community provisions.

## 14. Transport information

**14.1. UN number:** Not regulated as dangerous goods.

**14.2. UN proper shipping name:** Not regulated as dangerous goods.

**14.3. Hazard classes for transportation:** N/A

### 14.4. Packing group

**ADR/RID:** Not assigned

**IATA-DGR:** Not assigned

**IMDG:** Not assigned

### 14.5. Environmental hazards

**ADR/RID:** Not assigned



**IATA-DGR:** Not assigned

**IMDG:** Not assigned

**14.6. Special precautions for users:** Stable at room temperature during transport. To avoid spilling, transport in secure, properly sealed containers. Not regulated as dangerous goods.

**14.7. Transport in bulk in accordance with appendix II of the Marpol agreement and the IBC code:** No category assigned for the IBC code.

## 15. Regulatory information

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

COMMISSION REGULATION (EU) No 2015/830.

**Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer (recast) - Not listed**

**Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals - Not listed**

**Regulation (EC) No 166/2006 of the European Parliament and of the Council of 18 January 2006 concerning the establishment of a European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC - Not listed**

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). - Not listed

**Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work**

**Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC**

European Agreement concerning the international carriage of dangerous goods by road (ADR).

Regulation on the international transport of dangerous goods on the railway. (RID)

International maritime code of dangerous goods. (IMDG)

International Air Transport Association (IATA) regulation pertaining to air shipment.

International Bulk Chemical Code (IMSBC Code), MARPOL 73/78. .

### **Commission Regulation Other hazards**

Propylene-ethylene copolymer (CAS: 9010-79-1) is listed in TSCA Chemical Inventory (EPA).

## **15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## **16. Other information**

### **Glossary**

MSDS: Material safety data sheet

CAS: Chemical Abstract Service

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists.

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short-term Exposure Level

REL: Recommendable Exposure Limit

PEL: Permissible Exposure Limit

INSHT: Instituto Nacional de Seguridad e Higiene en el Trabajo.

VLA-ED: Environmental limit value - daily exposure

VLA-EC: Limit environmental value - short exposure

DNEL/DMEL: Derived no-effect level / Derivation of minimal effects levels

PNEC: Predicted No Effect Concentration

LD50: Lethal Dose Medium

LC50: Lethal Concentration Medium

EC50: Effective Concentration Medium

IC50: Inhibitory Concentration Medium

BOD: Biological Oxygen Demand.

NOAEL: No observable adverse effect level

NOEL: No observed effect level

NOAEC: No observed adverse effect concentration

NOEC: No observed effect concentration

N/A: Not applicable

|| - | : Changes from the last revision

### **Databases consulted**

EINECS: European Inventory of Existing Commercial Substances.

TSCA: Toxic Substances Control Act, US Environmental Protection Agency.

HSDB: US National Library of Medicine.

RTECS: US Dept. of Health & Human Services.

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### **Hazard Class-and-Category shown in the document**

N/A: Not applicable

### **INFORMATION NOTE ABOUT PRODUCT SAFETY**

Purchasing companies have an obligation to ensure that their employees are properly trained on the safe handling and use of the product in accordance with the guidelines contained in this information note about product safety. Furthermore, companies purchasing this product are required to inform their employees, and individuals who could manipulate or use it within their facilities, about all indications included in the INFORMATION NOTE ABOUT PRODUCT SAFETY, in particular those relating to the product's risks to the health and safety of people and to the environment. Safety Information Sheet/Fact Sheet prepared in compliance with Article 32 of Regulation (EC) 1907/2006 (REACH), in order to communicate information down the supply chain for substances on their own or in mixtures for which a safety data sheet is not required in the SDS format. Therefore, this document does not constitute a Material Safety Data Sheet (MSDS/SDS) according to Article 31 of REACH, given that for the purposes of REACH, it is not

compulsory to provide a MSDS/SDS for the substance or mixture covered under this Safety Information Sheet/Fact Sheet.

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