

Date of MSDS – 27/11/2017

According to European Regulation (EU) No 453/2010 (REACH) in the current version.

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME:	PET-G filament
TRADE NAME AND SYNONYMS :	Fiberlogy PET-G filament
CHEMICAL FAMILY :	Copolyester
COMPANY NAME:	FIBERLAB S.A.
ADDRESS :	Brzezie 387, 32-014 Brzezie, Poland
TELEPHONE:	+48 731 400 201
EMAIL:	office@fiberlogy.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCES: Not applicable.

MIXTURES: Chemical composition:

- Copolyester
- where required: filling additives
- where required: functional additives

3. HAZARD IDENTIFICATION

3.1. The substance is not classified as dangerous according to Regulation (EC) No 1272/2008 (CLP/GHS) and Directive 67/548/EEC.

3.2. Label elements

Hazard Pictogram:	None
Signal Word:	None
Hazard Statements:	None
Precautionary Statements:	Not applicable

3.3. Other hazards

Others hazards which do not result in classification:

The hazards of this product are associated mainly with its processing. Molten polymer will produce thermal burns. Polymer dust may represent a fire hazard at sufficient concentrations in presence of ignition sources.

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation:	Move exposed person to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Consult a physician after significant exposure.
Skin Contact:	Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin. Obtain medical attention.
Eye Contact:	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
Ingestion:	Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur and show the TDS.

4.2. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.

5. FIRE FIGHTING MEASURES**5.1. EXTINGUISHING MEDIA**

Suitable extinguishing media:	Use an extinguishing agent suitable to local circumstances and the surrounding environment. Example: Water Spray, Dry Chemical Powder and Carbon Dioxide.
Unsuitable extinguishing media:	Do not use water, if fire is caused by an electrical short circuit

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion Products:	Carbon monoxide, carbon dioxide, acetaldehyde.
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5.3. ADVICE FOR FIRE-FIGHTERS:

Unusual fire and explosion hazards :	Powdered material may form explosive dust-air mixtures. High voltage static electricity build-up and discharge must be avoided when significant quantities of powdered material are present.
Special protective equipment for fire-fighters :	Wear self-contained breathing apparatus, protective clothing and headgear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURE

For non-emergency personnel:	Put on appropriate personal protective equipment. Spillages may be slippery. Clear up spillages. The molten polymer may remain hot for some time due to low thermal conductivity. Use care when disposing of molten mass. Do not breathe vapours or fumes that may be evolved during processing.
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For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

6.2. ENVIRONMENTAL PRECAUTIONS

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

SPILL: Vacuum or sweep up material and place in a container for recuperate or disposal. Avoid dust generation.

7. STORAGE AND HANDLING

7.1. PRECAUTIONS FOR SAFE HANDLING

Protective measures: Put on appropriate personal protective equipment.
Advice on general occupational hygiene : Adequate ventilation and cleanliness must be employed in the processing area. Area should be controlled using good occupational hygiene practices. Accumulation of the dust may represent a fire and explosion hazard at sufficient concentrations. Remove ignition sources. Beware of electrostatic charges.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep containers closed when not in use. Store in original container in a dry, cool and well-ventilated area, away from flame, ignition sources, direct sunlight or incompatible materials (see section 10). Maintain good housekeeping to control dust accumulations.

7.3. SPECIFIC END USES:

Recommendations : Not Available Industrial sector specific
Solutions: Not Available

8. EXPOSURE CONTROL & PERSONAL PROTECTION

8.1. CONTROL PARAMETERS LIMITS : No exposure limit value known.

8.2. EXPOSURE CONTROLS

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Provide for appropriate exhaust ventilation and dust collection at machinery. Provide exhaust ventilation at places where dust is formed.

Individual protection measures

Hygiene measures Wash hands before eating and at the end of the working period.

Eye/face protection : Not required under normal conditions of uses. Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields when working with molten material.

Skin protection

Hand protection: Protective gloves are required when handling hot polymer.

Other skin protection: Appropriate footwear and additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. A safety shower and washing facilities should be available.

Respiratory protection: Not required under normal conditions of uses. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. If respirators are used, a program should be instituted to assure compliance with OSHA standard (OSHA Respiratory Protection Program Guidelines).

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Solid Colourless Pellets
ODOUR :	Slight
pH :	Not applicable
BOILING POINT :	Not available
FLASH POINT :	Not applicable
EVAPORATION RATE :	Not applicable
FLAMMABILITY :	Non-flammable V
VAPOUR PRESSURE :	Not available
VAPOUR DENSITY :	Not available Relative density : $\geq 1,27 \text{ g.cm}^3$
SOLUBILITY(IES) :	Insoluble in water

10. STABILITY AND REACTIVITY

Reactivity :	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability :	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid :	No specific data.
Incompatible materials :	Acetic Anhydride, acetone, aniline, benzene, chloroform, chromic acid, cyclohexanone, dimethylformamide, dioxane, ethyl acetate, phenol, tetrahydrofuran. Reactive with strong oxidizing agents, as well as strong acids and caustic will decompose polyester.
Hazardous decomposition products :	Carbon monoxide, carbon dioxide, acetaldehyde.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON THE LIKELY ROUTES OF EXPOSURE

Inhalation:	Combustion products may be irritant; High concentration of dust may be irritant to the respiratory tract.
Ingestion:	Expected to be a low ingestion hazard.
Skin contact:	May cause physical abrasion in contact with skin. Molten polymer will adhere to the skin causing deep thermal burns.
Eye contact:	May cause physical abrasion in contact with eyes.

11.2. INFORMATION ON TOXICOLOGICAL EFFECTS

Potential acute health effects Inhalation :

Inhalation:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Eye contact:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics Inhalation

Ingestion:	No specific data.
Skin contact:	No specific data.
Eye contact:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

Long term exposure

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

General :	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards

12. ECOLOGICAL INFORMATION

Toxicity :	Not available.
Persistence and degradability :	Not available.
Bioaccumulative potential :	Not available.
<u>Mobility in soil</u>	
Soil/water partition coefficient (KOC) :	Insoluble in water
Mobility	Not available.
<u>Results of PBT and vPvB assessment</u>	
PBT:	Not available.
vPvB :	Not available.
Other adverse effects :	No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1.WASTE TREATMENT METHODS

Product

Methods of disposal : Like most thermoplastics, the product can be recycled. Can be landfilled or incinerated, when in compliance with local regulations.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT REGULATIONS

The substance is not subject to transport regulations on hazardous goods included in ADR (road transport), RID (rail transport), IMDG (marine transport) and ICAO/IATA (air transport).

UN number :	Not applicable
UN proper shipping name :	Not applicable
Transport Hazards Classes :	None
Packing Group :	Not applicable
Environmental hazards :	Not applicable
Special precautions for user :	None
Transport in bulk according to annex II of Marpol 73/78 and the IBC code:	Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV List of Substances of Very High Concern for Authorization: None of the components are listed.

Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: None of the components are listed.

15.2 Chemical Safety Assessment: Not available

16. OTHER INFORMATION

RECOMMENDED RESTRICTIONS: Do not use in medical applications involving permanent implantation in the human body.

FURTHER INFORMATION: 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 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. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

The information is provided as a way of a guide to the use of our product and is correct to the best of our knowledge. However, neither Fiberlab S.A. nor its subsidiaries can offer any guarantee as to its accuracy or exhaustiveness. All chemicals may present unforeseen risks and should be used with caution. We can not guarantee that the risks referred to above are the only risks present. The final choice of the application of a product is thus the sole responsibility of the user.