

Safety Data Sheet of **Fiberlogy PCTG GF** according to Regulation (EC) No. 1907/2006 (REACH), Regulation UE 878/2020 in the current version.

Update: 12 may 2023 r.

1. IDENTITYFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1. PRODUCT IDENTIFIER

Fiberlogy PCTG GF

1.2. RELEVANT IDENTIFIED OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Application: Filament used for 3D printing

Uses advised against: Undefined

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Fiberlab S.A.
Brzezie 387,
32-014 Brzezie,
Polska

1.4. EMERGENCY TELEPHONE NUMBER

+48 731 400 201

112 (Europe)

2. HAZARDS IDENTITYFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to the Regulation (WE) no. 1272/2008 (CLP): Product is not classified as hazardous.

2.2. LABEL ELEMENTS

According to the Regulation (WE) no. 1272/2008 (CLP): Product is not classified as hazardous

Hazard pictograms and signal word: None

Dangerous components placed on the label: None

Hazard statements: None

Precautionary statements: None

2.3. OTHER HAZARDS

Material does not contain vPvB and/or PBT substances

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

3.2. MIXTURES

- > 88% copolyester
- < 10% fiberglass (CAS:65997-17-3)
- < 2% dye

4. FIRST AID MEASURES

4.1. DESCRIPTION OF THE 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.

Information for medical: Treat symptoms.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Symptoms: No significant body reactions to the product.
- Threats: Risk of skin burns caused by hot melt if handled incorrectly. In addition, no hazards are anticipated with intended use and correct handling.

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

Continuation of first aid measures. Treatment as prescribed by the doctor.

5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing agents: water, foam, dry powder, carbon dioxide.

Unsuitable extinguishing media: direct stream of water.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of combustion: formation of carbon monoxide, carbon dioxide, nitrogen oxides, organic decomposition products..

5.3. ADVICE FOR FIREFIGHTERS

Provide/wear protective breathing apparatus.

The degree of risk depends on the burning substance and fire conditions.

In case of combustion, formation of toxic gases/vapours is possible. Dispose of fire residues and contaminated extinguishing water in accordance with applicable regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep away from sources of ignition. Avoid contact with skin and eyes. Avoid breathing dust. Wear dust masks and safety glasses if necessary.

6.2. ENVIRONMENTAL PRECAUTIONS

It should not be released into the environment.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep up and collect. Avoid raising dust. Provide adequate ventilation. Dispose of absorbed material in accordance with local regulations.

6.4. REFERENCE TO OTHER SECTIONS

Information on exposure controls/personal protection and disposal is available in the section 8 and 13.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Use the product in accordance with its intended use and the rules of occupational health and safety. Set up processing machines in a well-ventilated room. Avoid formation and deposition of dust. Follow the rules of occupational health and safety.

Measures to prevent the formation of aerosols and dust: maintain good standards of cleanliness to prevent dust accumulation.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Information on fire and explosion protection: General fire safety rules should be followed.

In case of dust formation: Take measures to prevent electrostatic charging.

Avoid all sources of ignition: heat, sparks, open flames.

Storage: Well sealed/packaged, cool and dry place. Protect against moisture, direct strong sunlight and high temperature. Contamination with other substances should be avoided. Storage together with hazardous substances should be avoided.

7.3. SPECIFIC END USE(S)

For the relevant identified uses listed in section 1, the guidance listed in this section should be followed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

The product does not contain any significant amounts of materials with occupational exposure limits.

8.2. EXPOSURE CONTROLS

Personal protective equipment:

Respiratory protection: respiratory protection if dusts are formed. particulate filter (type P1).

Hand protection: wear additional heat protection gloves when working with hot molten masses (EN 407).

Eye protection: safety glasses with side shields (frame goggles) (e.g. EN 166),

Body protection: Body protection must be selected depending on the activity and possible exposure, e.g. apron, safety boots, chemical protection suit.

General safety and hygiene measures: avoid contact of the molten material with the skin. Avoid inhalation of dusts/mists/vapours. Eyewash fountains and safety showers must be easily accessible. Follow industrial hygiene and safety rules.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Colour	By assortment
Odour	Light
Melting point / freezing point	No data
Boiling point	No data
Flammability	No data
Lower and upper explosion limit	No data
Flash point	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
pH	No data
Kinematic viscosity	No data
Solubility	Insoluble
Vapour pressure	No data
Density and / or relative density	1,25 - 1,28 g/cm ³
Relative vapour density	No data
Particle characteristics	Filament shape

9.2. OTHER INFORMATION

9.2.1. Information with regard to physical hazard classes

Protection against contact with molten material during printing

9.2.2. Other safety characteristics

See section 8

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

No response when stored and handled as directed. Some of the substances may burn, but none are flammable.

10.2. CHEMICAL STABILITY

The product is stable when stored and used as directed.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None, the product is stable when stored and used as directed/indicated.

10.4. CONDITIONS TO AVOID

Avoid all sources of ignition: heat, sparks, open flames. Protect against moisture.

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing and reducing agents, strong acids and bases.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

With prolonged and/or high thermal load above the decomposition environment, hazardous decomposition products may be formed (carbon monoxide, carbon dioxide, nitrogen oxides, organic decomposition products).

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) No. 1272/2008

Acute toxicity:

Oral: No data

Skin: No data

Inhalation: No data

Skin Corrosion / irritation:

The molten substance may cause thermal burns

Serious eye damage / irritation:

The molten substance may cause thermal burns

Respiratory or skin sensitisation:

No data

Germ cell mutagenicity:

Regulation UE 1272/2008, KOREA-ISHL, IARC, NTP, OSHA, ACGIH: Not listed

Carcinogenicity:

No data

Reproductive toxicity:

No data

STOT – single exposure:

No data

STOT – repeated exposure:

No data

Aspiration hazard:

No data

11.2. INFORMATION ON OTHER HAZARDS:

Product dust may be irritating to the eyes, skin and respiratory system. Resin particles, like other inert materials, cause mechanical irritation to the eyes. Ingestion may irritate the digestive system, cause nausea, vomiting and diarrhoea.

Działania szczególne:

May cause irritation and/or dermatitis. Ingestion may be irritating to the digestive system, cause nausea, vomiting and diarrhea Inhalation of dust may cause shortness of breath, tightness in the chest, scratchy throat and coughing Paralysis from irritating fumes.

11.2.1. Endocrine disrupting properties:

No data.

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

No data.

12.2. PERSISTENCE AND DEGRADABILITY

No data.

12.3. BIOAKUMULATIVE POTENTIAL

No data.

12.4. MOBILITY IN SOIL

No data.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

No data.

12.6. ENDOCRINE DISRUPTING PROPERTIES

No data.

12.7. OTHER ADVERSE EFFECTS

No data.

13. DISPOSTAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Recycling is recommended and all national and local regulations must be followed.

14. TRANSPORT INFORMATION

Not classified as dangerous goods according to transport regulations (ADR RID, ADN, IMDG).

14.1. UN NUMBER OR ID NUMBER

Not applicable.

14.2. UN PROPER SHIPPING NAME

Not applicable.

14.3. TRANSPORT HAZARD CLASS(ES)

Not applicable.

14.4. PACKING GROUP

Not applicable.

14.5. ENVIRONMENTAL HAZARDS

Not applicable.

14.6. SPECIAL PRECAUTIONS FOR USER

Not applicable.

14.7. MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not applicable.

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Some selected:

PCTG GF

2020/878/UE - Regulation of the European Commission of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

1907/2006/WE - Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulations EEC No 793/93 and No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives: 91/155/EEC; 93/67/EEC; 93/105/EC; 2000/21/EC and later changes.

1272/2008/WE - Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending Regulation EC 1907/2006.

15.2. CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment is not required for the mixture.

The SDS for this product is not legally required and is provided by us as a courtesy to our customers. The product is not classified as dangerous. A chemical safety assessment is not required.

16. OTHER INFORMATION

The data contained in this safety data sheet is based on our current knowledge and experience and describes the product only in relation to safety requirements.

Information provided on the basis of reference materials provided by raw material suppliers. According to the knowledge of Fiberlab S.A. they are reliable. These data are informative. Fiberlab S.A. does not provide any guarantees and is not responsible for the processing of the material, which may affect the final properties of the product, which may differ from the values given in this document.

