SAFETY DATA SHEET

Co-polyester Polyethylene Terephtalate Resin
Conforms to COMMISSION REGULATION (EU) 2015/830
amending Regulation (EC) No 1907/2006 (REACH) Annex II

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name	:	AzureFilm PCTG
Trade Name	:	FC171-XXXX
EC number	:	Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Plastic material for 3D Printing

1.3 Details of the supplier of the safety data sheet

Supplier	:	AzureFilm d.o.o. Orleška cesta 16 6210 Sežana Tel.: + 386 (0)31 718 800
e-mail address or person responsible for this SDS	:	info@azurefilm.com

1.4 Emergency telephone Number Portuguese Poison Centre (CIAV)

Telephone number	:	+ 386 (0)31 718 800
Hours of operation	:	8 hours a day

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product Definition	:	The substance is not classified as dangerous according to Regulation (EC) No 1272/2008 (CLP/GHS).

2.2 Label elements

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

2.3 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.

This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher.

SECTION 3: Composition/information on ingredients

Substance Name	Concentration (%)	Classification Regulation EC No 1272/2008
Co-polyester	> 99.9	Not Classified

The polymer contains minor additives such as stabilizers and catalysts.
These additives are immobilized by the polymer and are not released with normal use.

SECTION 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.

SECTION 5: Firefighting 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.

5.3 Advice for firefighters

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.
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".

6.2 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.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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).

7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
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 use(s)

Recommendations	:	Not Available
Industrial sector specific Solutions	:	Not Available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure 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 perform 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).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Solid Colourless Pellets
Odour	:	Slight
Odour threshold	:	Not available
pH	:	Not applicable
Initial boiling point and boiling range	:	Not applicable
Flash point	:	Not applicable, combustible solid
Evaporation rate	:	Not applicable
Flammability	:	Non-flammable
Vapour pressure	:	Not applicable
Vapour density	:	Not applicable
Relative density	:	>1,27 g/cm^3
Solubility (ies)	:	Insoluble in water
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Explosive properties	:	Not available
Oxidising properties	:	Not available

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 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.
10.6 Hazardous decomposition products	:	Carbon monoxide, carbon dioxide, acetaldehyde.

SECTION 11: Toxicological information

Information on the likelyroutes 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.

11.1 Information on toxicological effects

Potential acute health effects

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	:	No specific data.
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.

SECTION 12: Ecological information

12.1 Toxicity : Not available.

12.2 Persistence and degradability : Not available.

12.3 Bioaccumulative potential : Not available.

12.4 Mobility in soil

Soil/water partition coefficient (KOC) : Insoluble in water

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not available.
vPvB : Not available.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 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.

SECTION 14: Transport information

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).

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

SECTION 15: Regulatory information

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

Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer: None of the components are listed.

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC: None of the components are 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: None of the components are listed.

Council Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances: None of the components are listed.

15.2 Chemical Safety Assessment: Not available

SECTION 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.