

SAFETY DATA SHEET

by Commission Regulation (EC) No 830/2015 (REACH)

PRODUCT NAME: Fillamentum PLA Crystal Clear

Revision date: 7.12.2018/3

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Identification of the substance / preparation

Product name: Fillamentum PLA Crystal Clear

1.2 Application

Use of the substance or mixture: Filaments for 3D printing
Recommended restrictions on use: Designed for professional / industrial use.

1.3 Manufacturer / Supplier:

Company: Fillamentum Manufacturing Czech s.r.o.
Address: nám. Míru 1217
768 24 Hulín
Czech Republic
ID: 29233275
Website: www.fillamentum.com
Telephone: +420 720 060 947
E-mail: helpdesk@fillamentum.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008.

2.2 Label elements

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008.

2.3 Other hazards

No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Type of product: Substance

3.1 Substances

Chemical name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Number	Registration
Poly lactide resin	-	9051-89-2	> 99	-	No data available	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: No hazards which require special first aid measures.

Eye contact: Rinse eyes and eyelids with plenty of water for more than 15 minutes. If symptoms occur, get medical attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.

Ingestion: Rinse mouth. If symptoms occur, get medical attention.

Inhalation: Move to fresh air. If symptoms occur, get medical attention.

Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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4.2 Most important symptoms and effects, both acute and delayed

Main symptoms: No acute or delayed symptoms and effects are observed.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Special hazard: Hazardous decomposition products formed under fire conditions: Carbon oxides, Acetaldehyde

5.3 Advice for firefighters

Fire fighting measures: Evacuate non-essential personnel. Move containers from fire area if you can do it without risk. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus and protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not walk on spilled material. Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Use personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions

Do not release into the environment.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Throw into appropriate disposal containers.

6.4 Reference to other sections

For other disposal see Section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep the package well closed and dry. Protect from moisture, water.

Storage temperature: < 40 °C

7.3 Specific end uses

Exposure scenario: No information is available.

Other information: No information is available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits:	Contains no substances with occupational exposure limit values.
Biological Limit Values:	Not established.
Recommended monitoring procedures:	No information available.
Derived No Effect Level (DNEL):	No information available.
Predicted No Effect Concentration (PNEL):	No information available.

8.2 Exposure controls

Appropriate engineering controls: Ensure proper ventilation of the area. Keep temperatures below 230 °C (446 °F).

Individual protection measures, such as personal protective equipment

Eye protection:	Tightly fitting safety goggles according to EN 166.
Hand protection:	Materials suitable for the protective gloves according to EN 374: butyl rubber (thickness 0,5 mm). Break through time: > 8 hours.
Skin and body protection:	Use the protective long-sleeved clothing.
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Recommended Filter Type:	P2/FFP2.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations. Do not eat, drink or smoke while using the product. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical Appearance:	Solid, natural or coloured filament
Odour:	Odourless
pH:	Not applicable
Melting/freezing point:	150-230 °C (302-446 °F)
Boiling point/boiling range:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas)	Not applicable
Flammability Limits in Air	Not applicable
Vapour pressure	Not applicable
Relative density	No information available
Solubility:	
Water solubility:	Insoluble substance
Partition Coefficient (n-octanol/water):	Not applicable
Auto-ignition temperature:	No information available

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Decomposition temperature:	> 230 °C (446 °F)
Density:	1,2-1,3 g/cm ³
Dynamic viscosity:	Not applicable
Kinematic viscosity:	Not applicable
Explosive properties:	Not explosive
Oxidising properties:	Not oxidizing

9.2 Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions occur.

10.4 Conditions to avoid

Temperatures higher than 230 °C (446 °F).

10.5 Incompatible materials

Moisture, water.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides, Acetaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion:	No effect known.
Skin contact:	No effect known.
Inhalation:	No effect known.

Skin corrosion/irritation: No effect known.

Serious eye damage/irritation: No effect known.

Respiratory or skin sensitisation: No effect known.

Germ cell mutagenicity: Not known to cause heritable genetic damage.

Carcinogenicity: Contains no ingredient listed as a carcinogen.

Reproductive toxicity: Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.

STOT-single exposure: No effect known.

STOT-repeated exposure: No effect known.

Aspiration hazard: No effect known.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Contains no substances known to be hazardous for the environment.

12.2 Persistence and degradability

Decomposes in contact with water. Hydrolysis product (S-lactic acid): Readily biodegradable.

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

This product is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues/unused products: Dispose of in accordance with local regulations.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

According to: ADR, RID, AND, IMDG, IATA/ICAO.

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class

Not regulated.

14.4 Packing group

Not regulated.

14.5 Environmental hazards

Not applicable.

14.6 Special precaution for user

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

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SECTION 15: REGULATORY INFORMATION

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

Restrictions on use:

None.

Other regulations:

No information available.

15.2 Chemical safety assessment

No information available.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under section 2 and 3:

Not applicable.

The information is published in the best knowledge and information of the company. The final usage of the product must be assessed by the user. The company is not responsible for any risks caused by incorrect handling or processing.