

SAFETY DATA SHEET

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

PRODUCT NAME: Fillamentum Flexfill TPE 90A

Revision date: 5.12.2019/1

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

1.1 Identification of the substance / preparation

Product name: Fillamentum Flexfill TPE 90A

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.

Adverse physicochemical, human health and environmental effects: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with. Not classified as flammable according to EC criteria, but may present a risk in the event of a fire.

2.2 Label elements

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

2.3 Other hazards

No additional information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable.

3.2 Mixture

Composition containing polypropylene and styrene-ethylene-butadiene-styrene block copolymer with additives. This mixture contains no substances mentioned according to the criteria of section 3.2 of REACH Annex II.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First aider needs to protect himself.
Remove from exposure, lie down. Keep the victim at rest. Do not leave the victim unattended.

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Eye contact:	In the case of contact with molten product, immediately rinse eyes and eyelids with plenty of water for more than 10 minutes. Get medical attention.
Skin contact:	In the case of contact with molten product, wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Do not tear off the solid product from the skin. Get medical attention.
Ingestion:	In the case of contact with molten product, rinse mouth with cool water. Get medical attention.
Inhalation:	In the case of accidental inhalation of vapours or decomposition products, move to fresh air. If symptoms occur, get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact:	In the case of contact with molten product: burns.
Symptoms/injuries after eye contact:	In the case of contact with molten product: burns.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment is necessary.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Fire hazard: In case of fire may be released: carbon monoxide, carbon dioxide, acetic acid.

5.3 Advice for firefighters

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Only qualified personnel equipped with suitable protective equipment may intervene. Evacuate personnel to safe areas.

6.1.2 For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 Environmental precautions

Do not release into the environment. Prevent from entering into drains or water courses.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Throw into appropriate disposal containers. Recycle or dispose of in compliance with current legislation. Other information: Caution: This product can cause the floor to be slippery.

6.4 Reference to other sections

For other information see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid dust formation. In thermal processing; Risk of skin burns. Avoid the build-up of electrostatic charge.

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Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Avoid exceeding the given occupational exposure limits (see Section 8).

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. 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

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Storage

Keep the package well closed and dry in a dry and well-ventilated place. Protect from heat. Keep away from food, drink and animal feeding stuffs.

Storage temperature: < 40 °C

Storage stability

Stable under recommended storage conditions.

Incompatible materials

None are known.

Packaging materials

Recommended materials: Paper, aluminium, polyethylene.

7.3 Specific end uses

No information is available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Specific exposure limits have not been established or are not applicable unless listed below.

- EU Regulation:
 - TRGS 900 Arbeitsplatzgrenzwert (Deutschland): 10 mg/m³ (Staub)
- US (NIOSH/OSHA AGGIH):
 - NIOSH- TWA: Not applicable
 - OSHA- TWA: Not applicable
 - ACGIH- TWA: Not applicable
- Regulation in Korean: Not applicable
- Biological Exposure Index: Not applicable

8.2 Exposure controls

Appropriate engineering controls: Safety shower. Eye fountain.

Individual protection measures, such as personal protective equipment

Eye protection: Wear safety glasses.

Hand protection: Wear protective gloves. Use barrier cream regularly. Protective heat-insulating gloves are to be used during thermal processing.

Skin and body protection: Protective clothing

Respiratory protection: In the case of thermal decomposition use self-contained breathing apparatus.

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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
Relative evaporation rate (butyl acetate=1)	No data available
Melting point:	100-120 °C
Freezing point:	No data available
Boiling point:	No data available
Flash point:	Not applicable
Auto-ignition temperature	580 °C
Decomposition temperature:	> 200 °C
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Bulk density:	640-750 kg/m ³
Solubility:	
Water solubility	Insoluble substance
Log Pow	No data available
Autoinflammability:	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self-heating.
Dynamic viscosity:	No data available
Kinematic viscosity:	Not applicable
Explosive properties:	No data available
Oxidising properties:	No data available

9.2 Other information

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable at ambient temperature and under recommended conditions of storage and use.

10.3 Possibility of hazardous reactions

None to our knowledge.

10.4 Conditions to avoid

Moisture. Cannot withstand heat.

10.5 Incompatible materials

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None to our knowledge.

10.6 Hazardous decomposition products

Decomposition products on thermal decomposition (pyrolysis) releases: Carbon monoxide, Carbon dioxide, acetic acid.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation:	Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Serious eye damage/irritation:	Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Respiratory or skin sensitisation:	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity:	Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure):	Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure):	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard:	Not classified (Technical impossibility to obtain the data)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No additional information available.

12.2 Persistence and degradability

Not biodegradable.

12.3 Bioaccumulative potential

No additional information available.

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment methods: Recycle the material as far as possible. Dispose of in accordance with relevant local regulations.

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Additional information:

The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

According to: ADR, RID, IMDG, IATA, ADN.

14.1 UN number

Not regulated for transport..

14.2 UN proper shipping name

Proper Shipping Name (ADR):	Not applicable.
Proper Shipping Name (IMDG):	Not applicable.
Proper Shipping Name (IATA):	Not applicable.
Proper Shipping Name (ADN):	Not applicable.
Proper Shipping Name (RID):	Not applicable.

14.3 Transport hazard class

ADR	
Transport hazard class(es) (ADR):	Not applicable.
IMDG	
Transport hazard class(es) (IMDG):	Not applicable.
IATA	
Transport hazard class(es) (IATA):	Not applicable.
ADN	
Transport hazard class(es) (ADN):	Not applicable.
RID	
Transport hazard class(es) (RID):	Not applicable.

14.4 Packing group

Packing group (ADR):	Not applicable.
Packing group (IMDG):	Not applicable.
Packing group (IATA):	Not applicable.
Packing group (ADN):	Not applicable.
Packing group (RID):	Not applicable.

14.5 Environmental hazards

Dangerous for the environment:	No
Marine pollutant:	No
Other information:	No supplementary information available

14.6 Special precaution for user

Overland transport	
No data available	
Transport by sea	
No data available	
Air transport	
No data available	
Inland waterway transport	
Carriage prohibited (ADN):	No
Not subject to ADN:	No

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Rail transport

Carriage prohibited (RID): No

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

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions

15.1.2 National regulations

No additional information available

15.2 Chemical safety assessment

No additional information available

SECTION 16: OTHER INFORMATION

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.