

SAFETY DATA SHEET

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

PRODUCT NAME: Fillamentum Flexfill TPU 92A

Revision date: 20.8.2019/2

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

1.1 Identification of the substance / preparation

Product name: Fillamentum Flexfill TPU 92A

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

This substance does not contain any components considered to be bioaccumulative, persistent or toxic at levels of 0.1 % or higher.

Molten material can cause severe burns. Do not try to peel molten polymer from the skin. Cool rapidly with water.

Fine dust clouds may form explosive mixtures with air.

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Mixtures do not contain any hazardous ingredients.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Treat symptomatically.
In case of symptoms occurring, get medical attention.

If inhaled: If inhaled, remove to fresh air.
If symptoms occur, get medical attention.

In case of skin contact: After contact with molten polymer, cool skin with cold water.
Wash off the skin with soap and water.
In case of development of irritation, get medical attention.

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In case of eye contact: Remove contact lenses.
Protect unharmed eye.
Rinse thoroughly with plenty of water.
If eye irritation persists, get medical attention.

If swallowed: Keep respiratory tract clear.
Do not give anything by mouth to an unconscious person.
Call a physician, if symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms are known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Measures must be appropriate to local circumstances and surrounding environment.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Do not inhale gaseous vapours in the event of fire or explosion.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods: Common measures for chemical fires.

Further information: No action shall be taken involving any personal risk or without training.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid dust formation.

6.2 Environmental precautions

Environmental precautions: No environmental measures are required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Pick up and arrange disposal without creating dust.
Sweep and transfer into the appropriate, closed disposal container

6.4 Reference to other sections

For emergency contact information see Section 1, for personal protection see Section 8. For disposal considerations see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: See Section 8 for personal protection.
Smoking, eating and drinking should be prohibited in area of use.

Advice on protection against fire and explosion: In places where dust is formed, provide exhaust ventilation.

Hygiene measures: General industrial hygiene practice.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers:

Keep in labelled containers. No special storage conditions are required.

Advice on common storage:

No materials to be specifically mentioned.

7.3 Specific end uses

No information is available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No substances with occupation exposure limit values are contained.

8.2 Exposure controls

Personal protective equipment

Eye protection:

Use safety glasses with side-shields following EN166.

Hand protection remarks:

The protective gloves must be selected according to EU Directive 89/686/EEC and the standard EN 374.

Skin and body protection:

Use the protective clothing.

Respiratory protection:

Use respiratory protection. The local exhaust ventilation is provided.

Filter type:

Particulates type (P)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical Appearance:

Solid, natural or coloured filament

Odor:

No data available.

pH:

No data available.

Freezing point:

No data available.

Melting point:

No data available.

Flash point:

No data available.

Evaporation rate:

No data available.

Flammability (solid, gas):

No data available.

Burning rate:

No data available.

Upper explosion limit/Upper flammability limit:

No data available.

Lower explosion limit/Lower flammability limit:

No data available.

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Relative density:

No data available.

Density:

No data available.

Solubility:

Water solubility:

No data available.

Solubility in other solvents:

No data available.

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Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: No reactions are known. Dust may form explosive mixture in air.

10.4 Conditions to avoid

No conditions to avoid are known.

10.5 Incompatible materials

No incompatible materials are known.

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity: no data available

Acute dermal toxicity: no data available

Acute inhalation toxicity: no data available

Acute toxicity (other routes
of administration): no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Assessment: no data available

Germ cell mutagenicity

Genotoxicity in vitro: no data available

Genotoxicity in vivo: no data available

Carcinogenicity: no data available

Assessment: no data available

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Reproductive toxicity	
Effects on fertility:	no data available
Effects on foetal development:	no data available
STOT - single exposure:	no data available
STOT - repeated exposure:	no data available
Repeated dose toxicity:	no data available
Assessment:	no data available
Aspiration toxicity:	no data available
Experience with human exposure	
General information:	no data available
Inhalation:	no data available
Skin contact:	no data available
Eye contact:	no data available
Ingestion:	no data available
Toxicology, Metabolism, Distribution:	no data available
Neurological effects:	no data available
Further information	
Ingestion:	no data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Assessment:

This substance/ mixture 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.

12.6 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product:

Dispose of contents/container to an approved waste disposal plant.

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SECTION 14: TRANSPORT INFORMATION

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

14.1 UN number

Not regulated as dangerous goods.

14.2 UN proper shipping name

Not regulated as dangerous goods.

14.3 Transport hazard class

Not regulated as dangerous goods.

14.4 Packing group

Not regulated as dangerous goods.

14.5 Environmental hazards

Not regulated as dangerous goods.

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 for product as supplied.

SECTION 15: REGULATORY INFORMATION

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

REACH – Candidate List of Substances of Very High Concern for Authorisation (Article 59):

This product does not contain substances of very high concern (Regulation (EC) No 1907-2006 (REACH), Article 57).

The components of this product are reported in the following inventories:

DSL:	This product contains one or several components listed in the Canadian NDSL.
AICS:	On the inventory, or in compliance with the inventory.
NZIoC:	Not in compliance with the inventory.
ENCS:	Not in compliance with the inventory.
KECI:	On the inventory, or in compliance with the inventory.
PICCS:	Not in compliance with the inventory.
IECSC:	On the inventory, or in compliance with the inventory.
TCSI:	On the inventory, or in compliance with the inventory.
TSCA:	On the inventory, or in compliance with the inventory.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOCI (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA)).

15.2 Chemical safety assessment

Chemical safety assessment for the substances in the product are either Complete or Not applicable.

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.