

SAFETY DATA SHEET

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

PRODUCT NAME: Fillamentum Nylon CF15 Carbon

Revision date: 29.7.2019/2

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

1.1 Identification of the substance / preparation

Product name: Fillamentum Nylon CF15 Carbon

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

Risk of skin burns caused by hot melt.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: compound made of polyamide blend and carbon milled fibres.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First aider needs to protect himself.

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

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

Ingestion: Rinse mouth with water. Get medical attention.

Inhalation: Consult with a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

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

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Special hazard: In case of fire may be released: carbon monoxide, carbon dioxide, nitric oxides, organic products of decomposition.

Under certain fire conditions, traces of other toxic products may occur.

Exposure hazards: Not applicable.

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 personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8.

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

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.

6.4 Reference to other sections

Wear personal protective equipment. For other disposal see Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid dust formation. Protect from moisture. In thermal processing: Risk of skin burns.

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 moisture, water. Keep away from food, drink and animal feeding stuffs.

Storage temperature: < 40 °C

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Storage stability

Stable under recommended storage conditions.

7.3 Specific end uses

No information is available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No information available.

8.2 Exposure controls

Engineering measures: In case of thermal processing, provide for extraction of the vapours or adequate ventilation. Avoid dust formation. Dust must be extracted directly at the point of origin.

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.

Respiratory protection: Do not breathe dust. In case of dust or aerosol formation use respiration with an approved filter. Note time limit for wearing respiratory protective equipment. In the case of vapour formation, use a respirator with an approved filter. Respirator with filter for organic vapour.

Hygiene Measures: 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: > 172 °C

Boiling point/boiling range: Not applicable
Decomposition

Flash point: Not applicable

Evaporation rate: Not applicable

Flammability (solid, gas) The product is not flammable.

Lower explosion limit see Explosiveness

Upper explosion limit see Explosiveness

Vapour pressure Not applicable

Vapour density Not applicable

Solubility:

Water solubility Insoluble substance

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Partition Coefficient (n-octanol/water)	Not applicable Not required by safety or application considerations.
Autoinflammability:	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self-heating.
Decomposition temperature:	> 300 °C
Dynamic viscosity:	Not applicable Not required by safety or application considerations.
Kinematic viscosity:	Not applicable Not required by safety or application considerations.
Explosiveness:	Not explosive Dusts might form explosive mixtures with air.
Oxidizing properties:	Not oxidizing
9.2 Other information	
Formation of flammable gases:	The substance or mixture does not flammable gases in contact with water.
Ignition temperature:	> 350 °C
Peroxides:	The substance or mixture is not classified as organic peroxide.
Metal corrosion:	Not corrosive to metals.
Other information:	The range of values given complies with the variation range of the product group. The specific physical chemical data can be read in the product information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Do not bring hot melt material into contact with water. It causes steam formation.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Decomposition products on thermal decomposition: Carbon monoxide, Carbon dioxide, Nitrogen oxides (Nox), organic products of decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Further information

The properties of this product that are hazardous to health have been calculated according to regulation (EC) No. 1272/2008. See Section 2: Hazards Identification.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish see Section 12.6

12.2 Persistence and degradability

Further Information see Section 12.6

12.3 Bioaccumulative potential

Bioaccumulation see Section 12.6

12.4 Mobility in soil

Mobility see Section 12.6

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

The properties of this product that are hazardous to health have been calculated according to regulation (EC) No. 1272/2008. See Section 2: Hazards Identification.

Contains substances with negligible ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Preferred way of disposal is recycling. If compliant with local regulation, product can be landfilled or incinerated.

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

Not determined.

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.