

# Safety Data Sheet

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

## Fillamentum Nylon AF80 Aramid



Revision date: 30. 1. 2020/1

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

#### 1.1 Identification of the substance / preparation

Product name: Fillamentum Nylon AF80 Aramid

#### 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](http://www.fillamentum.com)  
Telephone: +420 720 060 947  
E-mail: [helpdesk@fillamentum.com](mailto: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 additional information available.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: compound made of polyamide blend and polymer aramid fibres.

Chemical name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Registration Number
polyamide blend	-	-	> 85 %	-	-
poly-(para-phenylene-terephthalamid)	-	26125-61-1	11 %	-	-
additives	-	-	≤ 2 %	-	-

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### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

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

Eye contact: In the case of contact with molten product, immediately rinse eyes and eyelids with plenty of water for more than 10 minutes. In case of smoke irritation, wash the eyes with water until the irritation disappears. 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.

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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO<sub>2</sub>).

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, nitrogen oxides, organic products of decomposition, hydrogen cyanide (HCN).  
Under certain fire conditions, traces of other toxic products may occur.

Exposure hazards: Not applicable.

#### 5.3 Advice for firefighters

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

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

No specific measures are known.

#### 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

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

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

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### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Protect from moisture. In thermal processing: Risk of skin burns. Avoid the build-up of electrostatic charge.

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

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

#### 7.3 Specific end uses

No information is available.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

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

Chemical name: poly-(para-phenylene-terephthalamide)

European Union	limits not established
The United Kingdom	STEL: 1.5 fibre/cm <sup>3</sup> TWA: 0.5 fibre/cm <sup>3</sup>
France	limits not established
Spain	VLA-ED: 1 fibras/cm <sup>3</sup> /8 h
Italy	limits not established
Portugal	limits not established
Netherlands	TGG: 2 vezel/cm <sup>3</sup> (resp)/8 h
Denmark	limits not established
Poland	limits not established
Belgium	limits not established
Sweden	limits not established
Finland	http-arvot : 1 kuitu/cm <sup>3</sup>
Russia	limits not established
Turkey	limits not established

Biological Limit Values No information available.

Recommended monitoring procedures Refer to European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) or equivalent national standard(s).

Refer to European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) or equivalent national standard(s).

Refer to European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) or equivalent national standard(s).

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Derived No Effect Level (DNEL) Not applicable.

Predicted No Effect Concentration (PNEC) Not applicable.

### 8.2 Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

Eye protection: Wear safety glasses with lateral protection.

Hand protection: Wear protective gloves. Use barrier cream regularly. Protective heat-insulating and chemical-resistant 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. In case of insufficient ventilation wear suitable respiratory equipment. It is necessary when a maximum concentration of 1 RFP/ml of air is exceeded.  
Filter type: P2

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical Appearance: Solid, yellow filament

Odour: Odourless

pH: Not applicable

Melting point: > 180 °C

Freezing point: No data available

Boiling point: No data available

Flash point: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: > 300 °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: No data available

#### Solubility:

Water solubility Negligible

Solubility in other solvents Strong acids

Log Pow No data available

Dynamic viscosity: No data available

Kinematic viscosity: Not applicable

Explosive properties: Not explosive

Oxidising properties: No data available

### 9.2 Other information

No additional information available.

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### 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

Exposure to UV-rays. Moisture. Cannot withstand heat.

#### 10.5 Incompatible materials

Strong acids. Strong bases.

#### 10.6 Hazardous decomposition products

Decomposition products on thermal decomposition (pyrolysis) releases: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), organic materials, hydrogen cyanide (HCN).

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### 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)
Serious eye damage/irritation:	Not classified (Based on available data, the classification criteria are not met)
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)

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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

Not readily biodegradable.

#### 12.3 Bioaccumulative potential

Not applicable.

#### 12.4 Mobility in soil

Not relevant.

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### 12.5 Results of PBT and vPvB assessment

Not applicable.

### 12.6 Other adverse effects

Not applicable.

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## 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.

Additional information:

The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal. Clean empty packing can be re-used.

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## SECTION 14: TRANSPORT INFORMATION

According to: ADR, RID, 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 applicable.

### 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 73/78 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.

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## 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.