

Safety Data Sheet

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

NonOilen[®]



Revision date: 18. 2. 2021/1

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

1.1 Identification of the substance / preparation

Product name: Fillamentum NonOilen[®]

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 data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Chemical name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Number	Registration
Poly lactide resin	-	9051-89-2	> 35	-	No data available	
Polyhydroxy butyrate	-	26744-04-7	> 55	-	No data available	
Plasticizer (aliphatic ester)	-	-	< 10	-	No data available	

3.2 Mixture

Chemical nature of the mixture: blend of polylactic acid and polyhydroxy butyrate.
Additional information: No dangerous substances above limits that need to be mentioned are contained.

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.

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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

The melted product can cause severe burns.

Inhalation of processing vapours: Can cause skin, eye and respiratory tract irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, water spray, carbon dioxide, dry powder.

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: burning may cause release of: carbon oxides, acetaldehyde, crotonic acid.

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.

Additional information:

Seal off endangered area. Remove persons to safety. Do not allow water used for extinguishing to enter drains, grounds, or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid the contact with the molten material.

In case of overheating, cool the melt in a water bath. Do not breathe the vapours. Wear appropriate protective equipment. Take off contaminated clothing immediately and wash it before reuse. Provide adequate ventilation. Provide a conveniently located respiratory protective device.

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

For other disposal see Section 8 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advices on safe handling:

In case of melting; Do not overheat to avoid thermal decomposition.

Make sure the air exchange is sufficient and the working rooms are air suctioned.

Do not breathe vapours.

Wear appropriate protective equipment. Take off contaminated clothing immediately and wash it before reuse. After work, wash hands and face.

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

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limit values: Not relevant

Derived No Effect Level (DNEL): This information is not required.

Predicted No Effect Concentration: This information is not required.

8.2 Exposure controls

In case of melting; Provide good ventilation or exhaust system or work with completely self-contained equipment.

Appropriate engineering controls: Ensure proper ventilation of the area. Keep temperatures below 200 °C (392 °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.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. See Section 6.

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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:	none
pH:	Not relevant
Evaporation rate	Not relevant
Melting point/freezing point:	150-230 °C
Boiling point:	Not relevant
Flash point:	Not relevant
Auto-ignition temperature	Not applicable
Decomposition temperature:	> 200 °C
Flammability (solid, gas):	No data available
Vapour pressure:	Not relevant
Density:	1,2-1,3 g/cm ³
Solubility:	
Solubility in water:	Insoluble substance
Solubility in other solvents:	partially soluble in chloroform, methylene chloride
Dynamic viscosity:	Not applicable
Kinematic viscosity:	Not applicable
Explosive properties:	Not relevant (due to its chemical structure)
Oxidising properties:	Not relevant (due to its chemical structure)

9.2 Other information

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

None under normal conditions of use.

10.4 Conditions to avoid

Temperatures above 60 °C. Cannot withstand heat. Remove all sources of ignition. Processing above 200 °C (392 °F).

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizing agents.

10.6 Hazardous decomposition products

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

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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.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Contains no substances known to be hazardous for the environment.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Does not bioaccumulate. Inherently biodegradable.

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

Recommendation: Recycling or special waste incineration.
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. Packaging that can't be re-used should be recycled if possible.

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

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

Rail transport

Carriage prohibited (RID):	No
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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

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.