

SAFETY DATA SHEET

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

PRODUCT NAME: Fillamentum OBC 905

Revision date: 30. 8. 2022 / 1

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

1.1 Identification of the substance / preparation

Product name: Fillamentum OBC 905

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.
This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Olefinic block copolymer > 99 %

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: Rinse eyes and eyelids with plenty of water for 10-15 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If symptoms occur, get medical attention.

Skin contact: Wash off immediately with soap and plenty of cold water while removing all contaminated clothes and shoes. Get medical attention.
Do not remove product from the skin without medical advisor.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention.

Inhalation: Move to fresh air. Move the victim to rest position. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Hazards: Risk of burns caused by hot melt.

4.3 Indication of any immediate medical attention and special treatment needed

Continue with first aid measures.
Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water fog or fine spray, Dry chemical fire extinguishers, Carbon dioxide fire extinguishers, Foam.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture

Special hazard: In case of fire may be released: smoke, carbon monoxide, carbon dioxide (CO₂).

5.3 Advice for firefighters

Fire-fighting measures: Evacuate non-essential personnel. Move spools from the fire area if you can do it without risk. If the material is molten, do not apply a direct water stream. Use fine water spray or foam. Cool surroundings with water to localize the fire zone.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (including a firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight the fire from a protected location or safe distance.

Additional warnings: Wear a self-contained breathing apparatus and personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not walk on spilled material. Avoid dust formation. Avoid contact with skin, eyes and clothing. Remove all the sources of ignition.

Ensure adequate ventilation. Do not breathe dust. Use personal protective equipment.

6.2 Environmental precautions

Do not release into the environment. Prevent from entering into soil, ditches, sewers, waterways and groundwater.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Capture mechanically. Throw into appropriate disposal containers.

Take preventive measures against static electricity discharge.

Danger of slipping on spilled material.

6.4 Reference to other sections

Wear personal protective equipment. For other disposal see Section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Instructions for safe handling

Avoid dust formation. Suction is necessary in dusty environment. In thermal processing: Risk of skin burns.

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.

Advice on protection against fire and explosion

Dust may form an explosive mixture with air. Take precautionary measures against static discharges. Keep away from the source of ignition. Use for earthing. Use the devices protected against explosion and non-sparking tools.

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7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep the package well closed and dry in a dry and well-ventilated place. Store away from high temperatures, direct sunlight or ultraviolet light.

Storage temperature: < 40 °C

7.3 Specific end uses

See the technical data sheet on this product for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

8.2 Exposure controls

Engineering measures: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures, such as personal protective equipment

Eye protection: Wear close-fitting safety glasses in accordance with EN 166.

Hand protection: Chemical protective gloves should not be needed when handling this material. The selection of gloves will depend on the task. Use gloves with insulation for thermal protection (EN 407), when needed.

Respiratory protection: Do not breathe dust. Use the following CE-approved air-purifying respirator: When dust/mist are present use a/an Particulate filter, type P2 (meeting standard EN 143). When combinations of vapors, acids, or dusts/mists are present use an Organic vapor cartridge with a particulate pre-filter, type AP2 (meeting standard EN 14387).

Chest and foot protection: Use appropriate protection clothes. Wear boots or safety shoes.

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. Eyewash devices must be available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical Appearance: Solid, natural or coloured filament

Odour: Odorless to mild

pH: Not applicable

Melting/freezing point: Not available

Boiling point/boiling range: Not applicable

Flash point: Not available

Evaporation rate: Not applicable

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

Lower explosion limit Not available

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Upper explosion limit	Not available
Vapour pressure	Not applicable
Vapour density	Not applicable
Density	0.84-0.94 g/cm ³ (20 °C)
Solubility:	
Water solubility	Insoluble substance
Partition Coefficient (n-octanol/water)	Not applicable Not required by safety or application considerations.
Autoinflammability:	The substance or mixture is not autoinflammable.
Decomposition temperature:	Not available
Dynamic viscosity:	Not applicable
Kinematic viscosity:	Not applicable
Explosiveness:	Not explosive
Oxidizing properties:	Not oxidizing

9.2 Other information

Molecular weight: approx. > 10 000 g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

Extremes of temperature and direct sunshine. Exposure to elevated temperatures can cause products to decompose.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Decomposition products in case of fire: Smoke, Aldehydes, alcohols, organic acids, carbon monoxide, carbon dioxide (CO₂).

Decomposition products can include trace amounts of: Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity, orally:

LD50, Rat, > 5 000 mg/kg Estimated.

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.

Acute toxicity, dermally:

LD50, Rabbit, > 2 000 mg/kg Estimated.

No adverse effects anticipated by skin absorption.

Acute toxicity, inhalation:

The LD50 has not been determined

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Skin corrosion/irritation:	No adverse effects are anticipated from single exposure to dust. Vapors released during thermal processing may cause respiratory irritation. Prolonged contact is essentially nonirritating to skin. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.
Eye corrosion/irritation:	Elevated temperatures may generate vapor levels sufficient to cause eye irritation. Solid or dust may cause irritation or corneal injury due to mechanical action.
Respiratory sensitization:	no data available chemical structure doesn't imply specific precaution for this effect
Skin sensitisation:	based on available data, the classification criteria are not met non-sensitizing
Carcinogenicity:	based on available data, the classification criteria are not met
Teratogenicity:	based on available data, the classification criteria are not met
Mutagenicity:	based on available data, the classification criteria are not met
Reproductive toxicity:	based on available data, the classification criteria are not met
STOT - single exposure:	Evaluation of available data suggests that this material is not an STOT-SE toxicant.
STOT - repeated exposure:	Chronic toxic effects are not expected. Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergencies.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish no warnings for aquatic toxicity

12.2 Persistence and degradability

Biodegradation: This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

12.3 Bioaccumulative potential

Bioaccumulation: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

12.4 Mobility in soil

In the terrestrial environment, the material is expected to remain in the soil.
In the aquatic environment, the material is expected to float

12.5 Results of PBT and vPvB assessment

This mixture has not been assessed for persistence, bioaccumulation and toxicity (PBT).

12.6 Other adverse effects

No relevant data was found.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

All disposal methods must be in compliance with the EU framework Directives 2008/98/EC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams.

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SECTION 14: TRANSPORT INFORMATION

According to: ADR/RID, IMDG, IATA-DGR.

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 considered environmentally hazardous based on available data.

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.

SECTION 15: REGULATORY INFORMATION

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

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, are exempt from registration or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered or are exempt from registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

European Inventory of Existing Commercial Chemical Substances (EINECS)

This product is a polymer according to the definition in Directive 92/32/EEC (7th Amendment to Directive 67/548/EEC) and all of its starting materials and intentional additives are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS) or in compliance with European (EU) chemical inventory requirements.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

SECTION 16: OTHER INFORMATION

The information is published with 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.