

SAFETY DATA SHEET

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

PRODUCT NAME: Fishy Filaments' OrCA® by Fillamentum

Revision date: 4. 10. 2022 / 1

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

1.1 Identification of the substance / preparation

Product name: Fishy Filaments' OrCA® by Fillamentum

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.

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768 24 Hulín

Czech Republic

ID: 29233275

Website: www.fillamentum.com

Telephone: +420 720 060 947

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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: Polyamide 6 and carbon fibres.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First aider needs to protect himself.

Remove from exposure, lie down. Keep the victim at rest. Do not leave the victim unattended.

Eye contact: Rinse eyes and eyelids with plenty of water for more than 10 minutes. If irritation develops or persists, obtain medical attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention if irritation develops or persists.

If hot or molten polymer burns the skin, immerse the burned area in cold running water and obtain medical attention

Ingestion: Use first aid techniques including coughing to remove the obstruction. If swallowed, obtain medical attention.

Inhalation: Move to fresh air. If symptoms occur, get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Hazards: Risk of burns caused by hot melt.

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4.3 Indication of any immediate medical attention and special treatment needed

Continue with first aid measures.

Patient monitoring and symptomatic treatment are necessary depending on the pathology and clinical findings.

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.

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

Evacuate personnel to safe areas. 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.

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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

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, black filament

Odour: Odourless

pH: Not applicable

Melting/freezing point: 230-250 °C

Boiling point/boiling range: Not applicable
Decomposition

Flash point: Estimated to be around 370 °C

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

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Vapour density	Not applicable
Relative density	1.18 (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 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.
Oxidising 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.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Fillamentum Manufacturing Czech has not conducted toxicity studies on this material. However, based on our experience and the information available the following statement has been derived from the structure of the product.

Acute toxicity:	Contact with molten product may cause thermal burns.
Skin corrosion/irritation:	Molten material will produce thermal burns.
Serious eye damage/irritation:	May cause mechanical irritation.
Respiratory or skin sensitisation:	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
Germ cell mutagenicity:	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
Carcinogenicity:	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
Reproductive toxicity:	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
STOT-single exposure:	Not applicable.
STOT-repeated exposure:	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
Aspiration hazard:	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The product has not been tested. The statement has been derived from the structure of the product. There is a high probability that the product is not acutely harmful to aquatic organisms.

12.2 Persistence and degradability

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

12.3 Bioaccumulative potential

The product will not be readily bioavailable due to its consistency and insolubility in water.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

The product has not been tested.

12.6 Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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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

This product is not defined under national/international road, rail, sea and air transport regulations as a hazardous material.

SECTION 15: REGULATORY INFORMATION

As this product is made from recycled plastic waste, as defined under Directive 2008/98/CE and Directive 2006/12/EC, it is not controlled under REACH.

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.