

1. PRODUCT IDENTIFICATION

Extrudr BioFusion TRADE NAME

FD3D GmbH MANUFACTURER

> Klosterstrasse 13 6923 Lauterach **AUSTRIA**

info@extrudr.com

USE OF PRODUCT Biobased copolymer, suitable for 3D printing filament

2. HAZARD IDENTIFICATION

No need for classification according to GHS criteria for this product (accor-CLASSIFICATION

ding to Regulation (EC) No. 1272/2008 [CPL]).

According to Regulation (EC) No. 1272/2008 (CLP) this product does not re-LABEL ELEMENTS

quire a hazard warning label in accordance with GHS criteria.

Danger of burns in contact with hot polymer. Hazardous vapours in case of SPECIAL ADVICE ON HAZARDS

burning.

3. COMPOSITION

CHEMICAL CHARACTERISTICS Biobased batch based on PLA, contains copolyester and additives.

ADDITIONAL INFORMATION No harmful ingredients

4. FIRST-AID MEASURES

In case of contact with molten polymer immediately cool the skin with cold ON SKIN CONTACT

water. Medical aid may be required to remove adhering material and for

treatment of burns.

AFTER INHALATION After inhalation of decomposition gases or dust remove patient to fresh air.

Contact a doctor in case of discomfort.

ON INGESTION No effects known. Rinse mouth with water and drink more water. Contact a

doctor in case of discomfort.

Rinse open eyes thoroughly with water. ON EYES CONTACT

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5. FIRE-FIGHT MEASURES

FIRE EXTINGUISHING MEDIA Water, dry chemical extinguisher, foam, carbon dioxide.

SPECIAL EXPOSURE HAZARDS During incomplete combustion release of carbon monoxide, tetrahydrofura-

ne, acetic acid and decomposition products possible.

SPECIAL PROTECTIVE EQUIPMENT Self-contained breathing apparatus.

> REMΔRK Accumulations of dust can be inflammable.

6. ACCIDENTIAL RELEASE MEASURES

PERSONAL PRECAUTIONS Use suitable protective clothing. Avoid eye contact and inhalation of dusts.

Keep ignition sources away.

Sweep up material and place in a container, risk of slipping. Avoid ingress of METHODS FOR CLEANING

material into drainage systems.

7. HANDLING AND STORAGE

HANDLING Avoid contact with molten polymer. Avoid generation of dust and electros-

tatic charge.

Protect against moisture and UV radiation. Store cool and keep packaging STORAGE

closed when not in use. Avoid sources of ignition.

8. PERSONAL PROTECTION

With suitable ventilation the threshold limits assumably will not be reached. TECHNICAL SAFETY MEASURES

Avoid electrostatic charge by use of grounding cables.

PERSONAL SAFETY EQUIPMENT Use adequate safety equipment, e.g. protective clothing, eye protection

glasses, heat protection gloves. In case of dust formation wear mask with

particle filter.

No eating or drinking during working. Avoid contact of hotmaterial with the WORK HYGIENE

skin. Avoid breathing dust and vapours.

9. PHISICAL AND CHEMICAL PROPERTIES

FORM Filament

COLOR colored

MELTING RANGE 190-230°C

OXIDISING PROPERTIES not self igniting / flammable

DENSITY 1.25g/cm³

10. STABILITY AND REACTIVITY

STABILITY The product is stable at recommended storage contidions.

SUBSTANCES TO BE AVOIDED Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, aldehydes, acetic acid, tetrahydrofurane,

low molecular weight oligomers.

11. TOXICOLOGICAL INFORMATION

LOCAL IRRITATION Dust can cause irritation of eyes, respiratory organs and skin. After ingestion

stomach pain or nausea are possible.

OTHER REMARKS Based on our state of knowledge and experience no injurious health effects

are expected if product is properly handled for the designated use.

12. ECOLOGICAL INFORMATION

ECOTOXICAL EFFECTS No negative ecological effects known at the present state of knowledge,

test results are not available. Due to insolubility in water most probably not

hazardous to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

PRODUCT Generation of waste should be minimised, check possibility for recycling.

Waste product can be incinerated or dumped together with domestic waste

in compliance with local authority requirements.

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14. TRANSPORT INFORMATION

TRANSPORT REGULATIONS Not class

Not classified as hazardous under transport regulations ADR, ADNR, RID, ICAO/IATA, IMDG/GGVSee.

15. REGULATORY INFORMATION

EU REGULATIONS This product does not require a hazard warning label in accordance with EC Directives.

WATER EXPOSURE CLASS (GERMANY) nwg', no risk of water pollution (classification acc. Att. 1 of VwVwS)

15. OTHER INFORMATION

This data is based on the current state of our information and experience. This safety data sheet describes our product in terms of safety requirements. Preceding data is not applicable as a warranty of product properties. It is the responsibility of the recipient to observe the existing legal regulations for the use of this product.

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