

# 1. PRODUCT IDENTIFICATION

#### 1.1 PRODUCT IDENTIFIER

TRADE NAME Extrudr FLAX

1.2 MANUFACTURER

ADRESS FD3D GmbH/Extrudr

Höchsterstraße 81 A-6972 Fußach

EMAIL info@extrudr.eu

#### 1.3 USE OF PRODUCT

Biodegradable polymer compound, suitable for 3D printing filament

# 2. HAZARD IDENTIFICATION

CLASSIFICATION No need for classification according to GHS criteria for

this product (according to Regulation (EC) No. 1272/2008

[CPL]).

LABEL ELEMENTS According to Regulation (EC) No. 1272/2008 (CLP) this pro-

duct does not require a hazard warning label in accordance

with GHS criteria.

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

vapours in case of burning.

# 3. COMPOSITION

CHEMICAL CHARACTERISTICS Biodegradable batch based on PLA, contains copolyester

and additives.

ADDITIONAL INFORMATION No harmful ingredients



MATERIAL SAFETY DATA SHEET extrudr FLAX

# 4. FIRST-AID MEASURES

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

the skin with cold 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.

ON EYES CONTACT Immediately rinse eyes with copious amount of running

water and seek medical advice.

# 5. FIRE-FIGHTING MEASURES

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

SPECIAL EXPOSURE HAZARDS During incomplete combustion release of carbon mon-

oxide, tetrahydrofurane, acetic acid and decomposition

products possible.

SPECIAL PROTECTIVE EQUIPMENT Self-contained breathing apparatus.

REMARK Accumulations of dust can be inflammable.

# 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Use suitable protective clothing. Avoid eye contact and

inhalation of dusts. Keep ignition sources away.

METHODS FOR CLEANING UP Sweep up material and place in a container, risk of slip-

ping. Avoid ingress of material into drainage systems.

# 7. HANDLING AND STORAGE

HANDLING Avoid contact with molten polymer. Avoid generation of

dust and electrostatic charge.

STORAGE Protect against moisture and UV radiation. Store cool and

keep packaging closed when not in use. Avoid sources of

ignition.



### 8. PERSONAL PROTECTION

TECHNICAL SAFETY MEASURES With suitable ventilation the threshold limits assumably

will not be reached. 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.

WORK HYGIENE No eating or drinking during working. Avoid contact of hot

material with the skin. Avoid breathing dust and vapours.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM Filament

COLOR colored

MELTING RANGE 160-200°C

OXIDISING PROPERTIES not self igniting / flammable

DENSITY 1.45 g/cm<sup>3</sup>

# 10. STABILITY AND REACTIVITY

STABILITY The product is stable at recommended storage conditions.

CONDITIONS TO BE AVOIDED Avoid fire and exposure to extreme heat above (60°C) and

all sources of ignition. Thermal decomposition >250°C.

SUBSTANCES TO BE AVOIDED Strong oxidising 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.

BIOLOCIAL DEGRADATION Product is biodegradable, in accordance with EN 13432.

BIDACCUMULATION Due to its consistency and insolubility in water biological

accumulation is not expected.



# 13. DISPOSAL CONSIDERATIONS

DDUDLICT

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.

# 14. TRANSPORT INFORMATION

TRANSPORT REGULATIONS

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

# 15. REGULATORY INFORMATION

EUREGULATIONS 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)

# 16. 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.

