1. PRODUCT IDENTIFICATION

1.1 PRODUCT IDENTIFIER

**TRADE NAME**
- Extrudr FLEX hard
- Extrudr FLEX medium
- Extrudr FLEX semisoft

1.2 MANUFACTURER

**ADDRESS**
- FD3D GmbH/Extrudr
  - Höchsterstraße 81
  - A-6972 Fußach

**EMAIL**
- info@extrudr.eu

1.3 USE OF PRODUCT

Industrial thermoplast, 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 product 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**
This product does not contain any substance which can be dangerous for the health or the environment, with exposure limits in the working place. It does not contain any persistent, bioaccumulative or toxic substance nor very persistent or very bioaccumulative.

**ADDITIONAL INFORMATION**
No harmful ingredients
4. FIRST-AID MEASURES

**ON SKIN CONTACT**

Wash off with water and soap. If molten polymer contacts the skin, cool the skin rapidly with water. Get medical attention if necessary.

**AFTER INHALATION**

If during its application or in case of fire processing vapours or decomposition products are inhaled, remove person to fresh air. If irritation develops or persists, obtain medical attention.

**ON INGESTION**

No adverse effects anticipated.

**ON EYES CONTACT**

Rinse eyes with plenty of water, mechanical effects only.

5. FIRE-FIGHTING MEASURES

**SUITABLE FIRE EXTINGUISHING MEDIA**

Small Fire: Use dry chemical, CO2, water spray or regular foam.
Large fire: Use water spray, water fog or regular foam. Do not use straight streams.

**COMBUSTION PRODUCTS**

Under fire conditions, polymer decomposes generating smoke and unidentified toxic and irritating compounds.

**FIRE FIGHTING INSTRUCTIONS**

Fire fighters should wear positive pressure self-contained breathing apparatus and should be equipped with protective clothing. Keep people away and isolate fire area.

6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS**

In case of spillage, material on the floor may cause slipping and falls.

**ENVIRONMENTAL PRECAUTIONS**

Prevent product from going into sewers or any water flow. In case of spill sweep up material and place in containers for re-use or disposal.

7. HANDLING AND STORAGE

Avoid processing material above recommended thermal processing temperatures. Good general ventilation should be sufficient for most conditions. Consider the use of local exhaust ventilation at processing emission points. Avoid breathing thermal processing fumes and vapours. Mechanical handling equipment can cause formation of dust. Avoid breathing dust. Use proper grounding techniques when handling this product to avoid electrostatic charges. Pellets on the floor may be slippery and cause falls.
8. PERSONAL PROTECTION

RESPIRATORY PROTECTION  For most conditions, no respiratory protection should be needed. When processing at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

EYE PROTECTION  Use safety glasses if there is a potential risk for exposure to particles. Use safety glasses if vapour exposure causes eye discomfort.

SKIN PROTECTION  Wear gloves for handling hot material during processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM  Filament
COLOR  colored
MELTING RANGE  195-220°C
OXIDISING PROPERTIES  not self igniting / flammable
DENSITY  1.15-1.20 g/cm³

10. STABILITY AND REACTIVITY

STABILITY  The product is stable at room temperature.
CONDITIONS TO BE AVOIDED  Temperature above 240 °C.
SUBSTANCES TO BE AVOIDED  Volatiles from melt processing are expected to be water vapour, carbon dioxide and other decomposition products.
HAZARDOUS DECOMPOSITION PRODUCTS  Thermal breakdown products may include a complex mixture of compounds, including but not limited to CO, CO₂, hydrogen cyanide, oxides of nitrogen, hydrocarbons, isocyanates, water vapour smoke.

11. TOXICOLOGICAL INFORMATION

INHALATION  At room temperature, exposure to dust and vapours is unlikely. High processing temperatures may generate vapours which may cause irritation and sensitisation.
INGESTION  No adverse effects anticipated
EYES CONTACT  The product in solid or dust form may cause irritation due to mechanical action. Elevated temperatures may generate vapours sufficient to cause eye irritation.
SKIN CONTACT  Essentially non-irritating to skin at room temperature. At high temperature vapours may cause sensitisation. No toxicity studies have been conducted.
12. ECOLOGICAL INFORMATION
Not expected adverse effects from this product as furnished. No ecotoxicological information is available. Material is expected to have low aquatic toxicity because of its insolvency in water.

13. DISPOSAL CONSIDERATIONS
The unused product is not considered a hazardous waste. Do not dump into any sewers, on the ground or into any body of water. Any disposal practice must be in compliance with all local laws and regulations.

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

15. REGULATORY INFORMATION
EU REGULATIONS This product does not need to be labelled according to EC regulations.
EU H PHRASES not applicable.
EU P PHRASES not applicable.
EINECS STATUS All starting raw materials of this product are listed on EINECS.
TSCA STATUS All ingredients are on the TSCA inventory.

16. OTHER INFORMATION
Disclaimer of responsibility
The information provided in this document is generated for the purpose of distributing health, safety and environmental data. It is not a specification sheet nor should any displayed data be construed as a specification.