

#### 1. PRODUCT IDENTIFICATION

Extrudr DuraPro ASA CF TRADE NAME

FD3D GmbH MANUFACTURER

> Klosterstrasse 13 6923 Lauterach **AUSTRIA**

info@extrudr.com

USE OF PRODUCT Acrylnitril-Styrol-Acrylester-Copolymer compund, suitable for 3D printing filament

### 2. HAZARD IDENTIFICATION

CLASSIFICATION Not applicable

Not applicable LABEL ELEMENTS

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

#### 3. COMPOSITION

2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile CHEMICAL CHARACTERISTICS

ADDITIONAL INFORMATION typical stabilizers and lubricants

#### 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.

Dust may cause irritation to respiratory system. In case of inhaling fumes AFTER INHALATION

released from heated material may cause respiratory irritation. In case of inhaling dense smoke, immediately remove a person to fresh air. If necessary,

apply artificial respiration and seek medical attention immediately.

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

doctor in case of discomfort.

Solid or dust may cause irritation or corneal injury due to mechanical action. Im-ON EYES CONTACT

mediately flush eyes with plenty of water for at least 15minutes and call a doctor.

### 5. FIRE-FIGHT MEASURES

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

SPECIAL EXPOSURE HAZARDS During incomplete combustion release of carbon dioxide, carbon monoxide,

hydrogen cyanide and a variety of chemical substances

SPECIAL PROTECTIVE EQUIPMENT Self-contained breathing apparatus.

REMARK Accumulations of dust can be flammable.

# 6. ACCIDENTIAL RELEASE MEASURES

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

Keep ignition sources away. Pellets or beads may present a slipping hazard.

METHODS FOR CLEANING Sweep up material and place in a container. Avoid ingress of material into

drainage systems. Avoid raising dust and ensure adequate ventilation.

### 7. HANDLING AND STORAGE

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

tatic 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. PHISICAL AND CHEMICAL PROPERTIES

FORM Filament

COLOR colored

210-250°C MELTING RANGE

not self igniting / flammable OXIDISING PROPERTIES

> 1.14g/cm<sup>3</sup> DENSITY

## 10. STABILITY AND REACTIVITY

STABILITY The product is stable at recommended storage contidions.

SUBSTANCES TO BE AVOIDED Strong oxidizing agents.

Accumulation of electrostatic charges, heating, flames and hot surfaces. CONDITIONS TO BE AVOIDED

Avoid contact with incompatible materials/substances.

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.

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

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

## 12. ECOLOGICAL INFORMATION

ECOTOXICAL EFFECTS not available

BIOLOGICAL DEGRADATION not available

> not available BIOACCUMULATION

### 13. DISPOSAL CONSIDERATIONS

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

Waste product can be dumped together with domestic waste in compliance

with local authority requirements.

SPECIAL PRECAUTIONS Do not dump into any sewers, on the ground, or into any body of water. All

disposal methods must be in compliance with all Federal, State/Provincial

and local laws and regulations.

### 14. TRANSPORT INFORMATION

TRANSPORT REGULATIONS Not classified as hazardous under transport regulations ADR, ADNR, RID,

ICAO/IATA, IMDG/GGVSee.

SPECIAL PRECAUTIONS FOR USER RELATED TRANSPORT OR TRASPORTATION MEASURES Local transport follows in accordance with Dangerous goods Safety Management Law. Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

EmS FIRE SCHEDULE : Not available EmS SPILLAGE SCHEDULE : Not available

## 15. REGULATORY INFORMATION

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

# 15. OTHER INFORMATION

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS



MATERIAL SAFETY DATA SHEET extrudr DuraPro ASA CF