

1. PRODUCT IDENTIFICATION

TRADE NAME Extrudr DuraPro ABS

MANUFACTURER FD3D GmbH

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USE OF PRODUCT Acrylonitrile-Butadiene-Styrene Co-polymer, suitable for 3D printing filament

2. HAZARD IDENTIFICATION

CLASSIFICATION Not applicable

LABEL ELEMENTS Not applicable

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

3. COMPOSITION

CHEMICAL CHARACTERISTICS Acrylonitrile-Butadiene-Styrene

ADDITIONAL INFORMATION typical stabilizers and lubricants

4. FIRST-AID MEASURES

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

treatment of burns.

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

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

doctor in case of discomfort.

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

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.

> Accumulations of dust can be inflammable. REMARK

6. ACCIDENTIAL RELEASE MEASURES

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

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

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

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.

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.



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9. PHISICAL AND CHEMICAL PROPERTIES

FORM Filament

COLOR colored

MELTING RANGE 180-200°C

OXIDISING PROPERTIES not self igniting / flammable

DENSITY 1.05g/cm³

10. STABILITY AND REACTIVITY

STABILITY The product is stable at recommended storage contidions.

SUBSTANCES TO BE AVOIDED Strong oxidizing agents.

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

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.

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 Not Expected to be acutely toxic, but pellets, if ingested by waterflow or

aquatic life, may mechanically cause adverse effects.

 ${\tt BIOLOGICAL\ DEGRADATION} \qquad \textbf{This water in soluble polymeric solid is expected to the inert in the environment}.$

Surface degradation is expected with exposure to sunlight. No appreciable bio-

degradation is expected.

BIOACCUMULATION No bioconcentration is expected because of the high molecular weight (MW>1000).

In the terrestrial environment, material is expected to remain in the soil. In the

aquatic environment, material will sink and remain in the sediment.

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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.

 $\hbox{\tt SPECIAL PRECAUTIONS}\qquad\hbox{\tt Do not dump into any sewers, on the ground, or into any body of water. All}$

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.

16. 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



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