



MATERIAL SAFETY DATA SHEET

DURAPRO PA6 GF

1. PRODUCT IDENTIFICATION

TRADE NAME	Extrudr DuraPro PA6 GF
MANUFACTURER	Extrudr FD3D GmbH Glaserweg 24 6890 Lustenau Austria info@extrudr.com
USE OF PRODUCT	Copolyamide (PA6/66), suitable for 3D printing filament

2. HAZARD IDENTIFICATION

CLASSIFICATION	Not applicable
LABEL ELEMENTS	Not applicable
SPECIAL ADVICE ON HAZARDS	No specific dangers known, if the regulations/notes for storage and handling are considered.

3. COMPOSITION

CHEMICAL CHARACTERISTICS	Poly(caprolactam-co-hexane-1,6-diamine-adipic acid)
ADDITIONAL INFORMATION	Contains lubricants

4. FIRST-AID MEASURES

ON SKIN CONTACT	In case of contact with molten material, immediately cool the skin with cold water. Hospital treatment is required to remove adhering material and for treatment of burns.
AFTER INHALATION	No effects known.
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. Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor, if irritation develops.



5. FIRE-FIGHT MEASURES

FIRE EXTINGUISHING MEDIA	Water spray, dry chemical extinguisher, foam, carbon dioxide. Unsuitable for safety reasons: water jet.
SPECIAL EXPOSURE HAZARDS	Can be emitted at temperatures of > 300 °C: Carbon monoxide, Hydrogen cyanide. Under special fire conditions, traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends on the fire conditions.
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	Sweep up material and place in a container, risk of slipping. Avoid ingress of material into drainage systems.

7. HANDLING AND STORAGE

HANDLING	Take precautionary measures against static discharges. Avoid contact with molten material.
STORAGE	Protect against moisture. Store cool and keep packaging closed when not in use.

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. Wear respiratory protection if ventilation is inadequate. In case of breathable aerosols/dust, wear mask with particle filter.
WORK HYGIENE	Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	Filament
COLOR	Colored
MELTING RANGE	Approx. 179–183°C
OXIDISING PROPERTIES	Not highly flammable; not fire-propagating
DENSITY	1.12–1,15g/cm ³

10. STABILITY AND REACTIVITY

STABILITY	The product is stable at recommended storage conditions.
SUBSTANCES TO BE AVOIDED	None known
CONDITIONS TO BE AVOIDED	Temperatures over 300 °C
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, Hydrogen cyanide, caprolactam

11. TOXICOLOGICAL INFORMATION

LOCAL IRRITATION	Contact with molten product may cause thermal burns. Contact with the eyes may cause mechanical irritation.
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. INFORMATION ON OTHER DANGERS

Endocrine disrupting properties:	No effects known
Other information:	None

13. ECOLOGICAL INFORMATION

ECOTOXICAL EFFECTS	There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the structure of the product.
BIOLOGICAL DEGRADATION	Experience shows this product to be inert and non-degradable
BIOACCUMULATION	The product will not be readily bioavailable due to its inconsistency and insolubility in water.



14. 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.
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.

15. 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

16. REGULATORY INFORMATION

EU REGULATIONS	This product does not require a hazard warning label in accordance with EC Directives.
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17. 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