



MATERIAL SAFETY DATA SHEET
according to Regulation (EU) No. 1907/2006

EPR InnoPET by Innofil3D BV

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name : EPR InnoPET
 Chemical name : Polyethylene Terephthalate
 Chemical family : Thermoplastic polyester
 Use : Monofilament for 3D-printing
 Company : Innofil3D BV
 Street address : Eerste Bokslootweg 17
 Postal code and city : 7821 AT Emmen
 Country : The Netherlands
 Telephone number : +31 (0) 591 820 389

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

No risk exists to the health of employees if the product is handled and processed properly.

3. COMPOSITION/INFORMATION ON INGREDIENTS

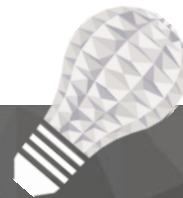
Chemical name : Polyethylene Terephthalate (virgin)
 CAS Number : 25038-59-9

4. FIRST-AID MEASURES

Eye contact : If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin contact : PET is unlikely to cause any hazard on skin contact. If molten polymer contacts skin, cool rapidly with plenty of cold water and obtain medical attention for treatment of the burn. Do not remove frozen material from burned skin.

Inhalation : No specific intervention is indicated since the compound is non-hazardous. However, if persons have been exposed to excessive levels of fumes from overheating or combustion or dust, remove to fresh air. If not breathing, give artificial respiration. Get medical



Note to physician : attention if symptoms persist.
: Burns should be treated as thermal burns. The material will come off during healing; therefore, immediate removal from skin is not necessary.

5. FIRE-FIGHTING MEASURES

Flammable properties : Combustion products: CO₂, H₂O and, if combustion is incomplete, CO.
 Suitable extinguishing media : All generally used extinguishing media are suitable.
 Special fire and explosion hazard : Powdered material can form explosive dust - air mixtures.
 Special firefighting procedures : Keep personnel removed from and upwind of fire. Wear self-contained breathing apparatus and full protective equipment to prevent contact with skin and/or eyes.

6. ACCIDENTAL RELEASE MEASURES

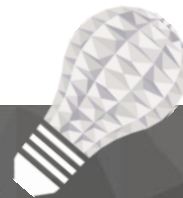
Personal precautions : Use appropriate protective equipment during cleaning.
 Environmental precautions : PET is not biological degradable. Do not dispose in the environment.
 Methods for cleaning up : When spilled or leaked, remove the material to avoid slipping. Recycle or incinerate at appropriate waste facilities.

7. HANDLING AND STORAGE

Safe handling advice : See section 8 for appropriate precautions to ensure safe handling.
 Storage conditions : Store in accordance with relevant precautions and safe material handling practises.
 Fire and explosion precautions : To avoid fire or explosion, avoid and if necessary remove precautions dust and keep away from sources of ignition. Vigilance towards the effects of electrostatic charge is advanced.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ground connection is necessary in case of electrostatic charge. Use suction systems in case of excessive dust and/or fume formation.
 Exposure limits : Not established.
Personal protective equipment
 Handling of molten polymer : Wear heat protecting gloves, safety glasses and avoid direct skin contact as molten material can cause severe burns. Keep equipment, rooms and clothing clean.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Filament.
Color	: Natural: Transparent.
Physical state	: Solid at room temperature.
Odor	: Odorless.
Melting point/range	: > 60 °C.
Auto-ignition temperature	: Not applicable.
Density	: 1.38 ± 0.04.
pH	: Not applicable.
Vapor pressure	: Negligible.
Water solubility	: Not applicable.

10. STABILITY AND REACTIVITY

Conditions to avoid	: Decomposition will occur in the presence of oxygen at temperatures in excess of 350°C.
Incompatibility	: Material can react with strong oxidizing agents.
Decomposition	: Combustion products include CO ₂ and CO. Thermal decomposition products include acetaldehyde and ethylene.

11. TOXICOLOGICAL INFORMATION

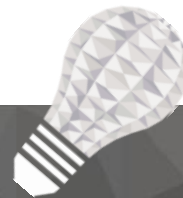
Effects of exposure	: No adverse toxic effects expected on exposure by inhalation, ingestion, or by skin/eye contact. Animal testing indicates that Polyethylene Terephthalate does not have carcinogenic, mutagenic, developmental or reproductive effects.
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12. ECOLOGICAL INFORMATION

The material is a high molecular weight polymer with very low water solubility. As such, it is expected to have a low biochemical oxygen demand and to cause essentially no oxygen depletion in aquatic systems. It is expected to have a low potential to affect aquatic organisms, secondary waste treatment microorganisms, and the germination and early growth of plants.

13. DISPOSAL CONSIDERATIONS

Recommendation	: It is preferable to recycle the material, disposal on household waste disposal facilities and incineration are however possible. Discharge, treatment and/or disposal is subject to national, state or local regulations. European waste code: EURAL code 070213.
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14. TRANSPORT INFORMATION

ADR/RID	: Not regulated.
ADN/ADNR	: Not regulated.
IMDG	: Not regulated.
IATA-DGR	: Not regulated.

15. REGULATORY INFORMATION

No labelling according to EC Directives.

16. OTHER INFORMATION

- The information in this Material Safety Data Sheet (MSDS) is mainly based on information used from the supplier of the raw materials which are used for production of the filaments.
- The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and experience. No liability can be assumed for the accuracy and completeness of this information.
- Users should consider this information only as additional to other data gathered. Independent determination of suitability and completeness of information from all available sources is essential to ensure proper and safe use and disposal of these materials.
- The information in this MSDS applies for this specific material only. It therefore does not apply for its usage in combination with other materials or ways of processing.