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

EPR InnoPET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

Product information

Trade name	:	EPR InnoPET
Chemical name	:	Polyethylene Terephthalate
Chemical family	:	Thermoplastic polyester
Use	:	Monofilament for 3D-printing
Company	:	Innofil3D BV. Eerste Bokslootweg 17 7821 AT Emmen
Telephone Telefax	:	+31 (0)591 69 2117 +31 (0)591 69 3456

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 nature

Virgin PET

CAS Number: 25038-59-9

4. FIRST AID MEASURES

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 attention if symptoms persist.
Skin contact	: PET is unlikely to cause any hazard on skin contact. If molten polymer contacts skin, cool rapidly with plenty of cold

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			water and obtain medical attention for treatment of the burn. Do not remove frozen material from burned skin.		
	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.		
	Note to physician	:	Burns should be treated as thermal burns. The material will come off during healing; therefore, immediate removal from skin is not necessary.		
5.	5. FIRE-FIGHTING MEASURES				
	Suitable extinguishing media	:	All generally used extinguishing media are suitable.		
	Flammable properties	:	Combustion products: CO_2 , H_2O and, if combustion is incomplete, CO.		
	Special fire and explosion hazard	:	Powdered material can form explosive dust – air mixtures.		
	Special fire fighting 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.	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				
	Handling	:	See section 8 for appropriate precautions to ensure safe handling.		
	Fire and explosion precautions	:	To avoid fire or explosion, avoid and if necessary remove dust and keep away from sources of ignition. Vigilance towards the effects of electrostatic charge is advanced.		
	Storage conditions	:	Store in accordance with relevant precautions and safe material handling practises.		

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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 granules / chips	:	In case of dust formation, wear dust mask. Keep equipment, rooms and clothing clean.		
	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				
	Form Odour	:	Granules (solid at room temperature) Odourless		
	Relevant data				
	Melting point Flash point Auto-ignition temperature Explosion hazard Density Solubility in water pH value Octanol / water partition coefficient Vapour pressure		$> 60^{\circ}C$ Not applicable Not applicable See section 7 1.38 ± 0.04 Not applicable Not applicable Not applicable Not applicable		
10	. STABILITY AND REACTIVIT	Ϋ́			
- •	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.		

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11. TOXICOLOGICAL INFORMATION

Effects of exposure : No adverse ingestion, or

: 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.

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.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Labelling according to EC Directives

No labelling

16. OTHER INFORMATION

-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 off 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.