

Material Safety Data Sheet

According to EU Reg. 830/2015

Last review: 2016

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product identifier

Product Name	PoliPET
Product Identification Name	PoliPET 76W, PoliPET 80GP, PoliPET 84SD, PoliPET 84F, PoliPET 84SDR
Name REACH	Polyethylene Terephthalate
CAS number	25038-59-9
EC number	N/A
REACH number	N/A
Molecular Formula	$(C_{10}H_8O_4)_n$
Synonyms	Poly(oxy-1,2-ethanedioloxycarbonyl-1,4phenylenecarbonyl)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Polyethylene terephthalate (PET) is an intermediate plastic used for food and non-food contact packaging, bottles and other relevant applications, by (not exhaustive methods): molding and extrusion processes. Do not use in medical applications involving permanent implantation in the human body.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	Polisan Hellas S.A Industrial & Commercial Company of Pet Resin Production & Preforms Head Office: B' Industrial Area of Volos, 37 500 Volos, Greece Tel. HO: +30 24250 22250
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1.4 Emergency telephone number

For emergency health, safety and environmental information, telephone:
+30 24250 22250

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance and mixture

Polyethylene terephthalate (PET) is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).

The hazards of this product are associated mainly with its processing.

Resin particles, like other inert materials, are mechanically irritating to eyes. Molten polymer will adhere to the skin and can cause severe burn.

2.2 Label elements

Labeling not required according to Regulation (EC) 1272/2008 (CLP).

2.3 Other hazards

Polyethylene terephthalate (PET) is not categorized as persistent, bio-accumulative or toxic (PBT) according to Regulation (EC) 1907/2006, Annex XIII.

Hazards of this product may be associated with its processing: resin particles (like other inert materials) are mechanically irritating to eyes. Molten resin could adhere to skin and cause severe burn.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**Substance:** Mono-constituent substance **Mixtures:** Not applicable

Product name	CAS No	Content	REACH No	Classification according to Reg. (EC) 1272/2008 (CLP)
Polyethylene terephthalate (PET)	25038-59-9	100%	N/A	Not classified as hazardous

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation: remove to fresh air and keep at rest in a position comfortable for breathing, in case of accidental inhalation of dust or fumes from overheating of combustion. Get medical attention if symptoms occur.

Skin contact: Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin. Get medical attention.

Eye contact: Immediately flush eyes with plenty of water, removing any contact lenses. Hold eyes open while flushing. If irritation occurs, get medical attention.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, provide small quantities of potable water to drink. If symptoms occur, get medical attention.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Not known significant effects or critical hazards. Particles / dust are mechanically irritating to eyes. Molten polymer will adhere to the skin and can cause severe burn. If necessary treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment method

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable: In case of fire use water spray, dry chemical, foam or CO₂.

Not Suitable: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: No specific fire or explosion hazard. Only powdered material may form explosive dust-air mixture. High voltage static electricity build-up and discharge must be avoided when significant quantities of powdered material are present.

Hazardous thermal decomposition products: Decomposition / combustion products may include carbon monoxide, carbon dioxide.

5.3 Advice for fire-fighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident, if there is a fire (solid polymer burns only with difficulty). No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters must wear suitable personal protective equipment (clothing, helmet, protective boots, gloves conforming to EU standard EN 469), and self-contained breathing apparatus (SCBA).

Fire-fighting measures: Use self-contained apparatus if respirable dust and/or fumes/vapors occur. Use water spray to cool and disperse vapors and protect personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unprotected personnel from approaching or entering. Do not touch or walk through spilled material. Wear suitable personal protective equipment.

For emergency responders: If specialized clothing is required to deal with spillage, consider information in Section 8 and information "For non-emergency personnel".

6.2 Environmental

No special environmental precautions required. Avoid dispersion of spilled material.

6.3 Methods and materials for containment and cleaning up

Small spill: Vacuum or sweep spilled material and place in a designated, labeled waste container. Disposal handling must comply to the relevant environmental protection and waste disposal legislation and local authority requirements.

Large spill: Prevent entry into sewers, watercourses and confined areas. Vacuum or sweep spilled material and place in a designated, labeled waste container. Disposal handling must comply to the relevant environmental protection and waste disposal legislation and local authority requirements.

6.4 Reference to other

See Section 1 for emergency contact information.

See Section 8 for information on suitable personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear suitable personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is stored, handled and processed. Wash hands and face before eating, drinking and smoking. Remove any contaminated clothing and personal protective equipment before entering eating area. Provide exhaust ventilation at places where dust is formed. Take precautionary measures against static discharges, where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Store in original containers. Keep containers tightly closed in a dry, cool and well ventilated area, away from incompatible materials (see Section 10). Protect from direct sunlight and high temperatures. Containers that have been opened should be carefully resealed after use and kept upright to prevent leakage. Do not store in unlabeled containers.

7.3 Specific end use(s)

Recommendations: Do not use in medical applications involving permanent implantation in the human body.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits: No exposure limit value established (in case of dust, <10mg/m³ TLV-TWA 8h).

Derived effect levels: No DELs established.

Predicted effect concentrations: No PECs established.

8.2 Exposure controls

Appropriate engineering controls: Use of good general ventilation system, efficient to control workers exposure to airborne contaminants (dust).

Individual protection measures

Hygiene measures: Wash hands and face before eating, drinking and smoking and at the end of workday. Remove any contaminated clothing and personal protective equipment before entering eating area.

Eye/face protection: Safety approved eyewear should be used as a good industrial practice and when a risk assessment indicates this as mandatory to avoid any possible exposure to material particles or dust. Full-face protection should be used when material is handled hot masse.

Hand protection: Approved protective gloves/clothing should be used as a good industrial practice. Thermal isolating gloves should be used when material is handled hot masse.

Body protection: Wear work clothing. Protective/thermal insulating gloves as above.

Other skin protection: Suitable approved protective footwear.

Respiratory protection: Dust protection mask or self-contained breathing apparatus. Do not breathe fumes evolved.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state)	Solid, cylindrical granules (pellets)
Color	White (in solid state)
Odor	Odorless
pH	Not available
Melting point/freezing point	240 – 265°C
Initial boiling point and boiling range	Not available
Flammability (solid, gas)	Slightly flammable in the presence of: open flames, static discharge and heat. Non-flammable under conditions: mechanical impacts, Oxidizing and reducing materials
Burning time	Not available
Upper/lower flammability or explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Solubility(ies)	Insoluble in water. Partially soluble in acetone, benzene
Auto-ignition temperature	>500°C
Decomposition temperature	Not available
Viscosity (intrinsic)	0.74-0.86 dl/g
Explosive properties	Non-explosive
Oxidizing properties	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal use condition

Chemical stability: Stable

Possibility of hazardous reactions: None, under normal conditions of storage and use .

Conditions to avoid: Avoid dust concentration with static discharges.

Incompatible materials: Avoid acetone, benzene, chloroform, chromic acid, dimethylformamide, chromic acid.

Hazardous decomposition products: when combusted carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: No data available

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not considered as reproductive toxic

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration hazard: No data available

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not applicable (no PBT or vPvB)

12.5 Other adverse effects

No-known eco-toxicological effects

SECTION 13: DISPOSAL CONSIDERATIONS

This is general advice information. Disposal handling must comply to the relevant environmental protection and waste disposal legislation and local authority requirements.

13.1 Waste treatment methods

Product: This product is not considered as hazardous waste, based on EU Directive 91/689. Like most thermoplastics, this product can be recycled. Recycling when possible is preferred to disposal or incineration. Disposal handling must comply to the relevant environmental protection and waste disposal legislation and local authority requirements.

Packaging: Waste packaging should be taken for recycling or waste disposal. Disposal handling must comply to the relevant environmental protection and waste disposal legislation and local authority requirements.

SECTION 14: TRANSPORT INFORMATION**14.1 UN Number**

Not classified as hazard for transport.

14.2 Proper shipping name

Not classified as hazard for transport.

14.3 Transport hazard class(es)

Not classified as hazard for transport.

14.4 Packing group

Not classified as hazard for transport.

14.5 Packing group Environmental hazards

Not classified as hazard for transport.

14.6 Specials precautions for users

Always transport in closed containers. Persons involved should know what to do if an accident or spillage occur.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Non-hazardous product, according to EU Regulations 1907/2006, 1272/2008 (REACH, CLP).

SVHC (substances of very high concern): none of the components are listed.

15.2 Chemical safety assessment

Not applicable

SECTION 16: OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

For further information please contact Polisan Hellas:

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