

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

PET containers

1. Identification of the substance/mixture and company

General name : PET - Polyethylene Terephthalate - Polyester

Product Family: Polymer

CAS No. : 25038-59-9

Utilization: Raw material for thermosetting plastics

Supplier company identification: **Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com

Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Emergency overview

GHS Classification	Non-hazardous
Physical State	Solid
Color	Typically clear or off-white
Odor	Waxy, mild

Primary Routes of Exposure Eyes or skin contact

2.2 Potential Health Effects

Acute Effects

Inhalation Health injuries not expected. Not a probable route of exposure under ordinary conditions.

Skin contact Health injuries not expected. Possible mechanical irritation.

Eye contact Health injuries not expected. Possible mechanical irritation from dust or powder.

Ingestion Health injuries not expected. Not a probable route of exposure.

2.3 Chronic effects

Ongoing exposure may aggravate acute effects

Carcinogenicity See Section 11

Medical conditions aggravated by long term exposure

Ongoing exposure may aggravate acute effects.

3. Declaration of ingredients

3.1 Chemical characterization

Component: Polyethylene Terephthalate

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Percentage: 100 (+/-)

4. First aid measures

4.1 Skin Contact: If in contact with solid material, wash with soap and water. If in contact with molten material, submerge injured area in cold water. Do not attempt to remove material adhering to the skin. Get medical attention if irritation develops or persists.

4.2 Eye Contact: Flush eyes with plenty of water. Get medical attention if irritation develops or persists.

4.3 Inhalation: This material is not likely to be hazardous by inhalation. Consult a physician if symptoms develop or persist.

4.4 Ingestion: Not a probable route of exposure.

5. Fire fighting measures

Use water fog, dry chemical, carbon dioxide or foam as appropriate for materials in surrounding fire. Avoid using direct streams of water on molten burning material as it may scatter and spread the fire. Melts in proximity to fires resulting in slippery floors and stairs. Static charges on powders or liquids may ignite combustible atmospheres. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. See NFPA Bulletin 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing Processing, and Handling of Combustible Particulate Solids," for safe handling procedures. As in any fire, wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing. Watch footing on floors and stairs because of possible spreading of molten material.

6. Accidental release measures

Refer to Section 8: Exposure Control and Personal Protection

6.1 Emergency Action:

No special environmental precautions required.

6.2 Spill/Leak Procedure:

Containment of this material should not be necessary. Sweep up or gather material and place in appropriate container for disposal.

7. Handling and storage

Refer to Section 8: Exposure Control and Personal Protection

7.1 Handling: Keep away from heat, flame and strong oxidizing agents.

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7.2 Storage: Keep away from heat, sparks, and flame. Store in a cool place in original container and protect from sunlight.

8. Exposure controls / personal protection

8.1 Engineering Controls:

Use recommended safe handling practices to minimize unnecessary exposure. General room ventilation is adequate for storage and ordinary handling. Use local exhaust at points of fume generation or if dusty conditions prevail.

8.2 Personal Protective Equipment:

Wear safety glasses with side shields or chemical goggles to prevent eye contact. Have eye-washing facilities readily available where eye contact can occur. Do not wear contact lenses when working with this substance. Wear impervious gloves and protective clothing to prevent skin contact. Use NIOSH or MSHA approved equipment.

9. Physical and chemical properties

Boiling Point: Not determined

Vapor Density (Air = 1): Not applicable

Specific Gravity (@ 23°C): 1.1

Soluble (% in Water): Negligible

Melting Point: 165 °C

Appearance: Solid

Evaporation Rate: Not applicable

Odor: Characteristic waxy

Vapor Pressure: Not applicable

pH: Not applicable

Odor Threshold: Not determined

Auto Ignition Temperature: Not determined

Solubility in water: Negligible

Viscosity (SUS @ 100°F): Not applicable

Decomposition Temperature: Not determined

Flammability Limits in Air (% by Volume)

Flash Point: Not determined

Lower: Not applicable **Upper:** Not applicable

10. Stability and reactivity

10.1 Reactivity: Not reactive under normal conditions of storage and use.

10.2 Chemical Stability: Stable under normal conditions of storage and use. Avoid exposure to open flame or exceeding recommended processing conditions.

10.3 Stability/Incompatibility: Avoid contact with strong oxidizers, strong acids or flammable materials.

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10.4 Conditions to Avoid: Avoid dust-air mixtures or static charge buildup. Avoid contact with incompatible materials such as oxidizing agents or amines.

10.5 Hazardous Reactions/Decomposition Products:

Material does not decompose at ambient temperatures. Combustion or high heat may produce thermal decomposition products that may include carbon monoxide, carbon dioxide, dense smoke, and other toxic vapors.

11. Toxicological information

11.1 Likely Routes of Exposure: Eyes and skin contact.

11.2 Acute Effects: Mechanical irritation of eyes and skin.

Oral Toxicity LD50 Not Available;

Inhalation Toxicity LD50 Not Available.

11.3 Chronic Effects: None known.

11.4 Symptoms: Irritation of eyes and skin.

11.5 Carcinogenicity: This product has not been found to be carcinogenic by the NTP, ACGIH, IARC or OSHA.

11.6 Further information: This product has no known adverse effect on human health.

12. Ecological information

12.1 Ecotoxicity: No known or expected ecotoxicity

12.2 Persistence and Biodegradability: Not determined.

12.3 Bioaccumulative Potential: Not determined.

12.4 Mobility in Soil: Not determined

13. Disposal considerations

Dispose of this product in compliance with all applicable federal, state and local regulations. The unused product is not specifically listed by EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP).

14. Transport information

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Refer to Section 6: Accidental Release Measures

14.1 D.O.T. 49 CFR 172.101: Not regulated

14.2 TDG: Not regulated

14.3 UN Proper Shipping Name/Number: Not regulated

14.4 IMDG: Not regulated

14.5 IATA: Not regulated

15. Regulatory information

SARA TITLE III Information:

Hazard categories for the Superfund Amendments and Reauthorization Act (SARA) Section 311/312/313 (40 CFR 370):

Immediate Hazard: No

Delayed Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

16. Additional information

No additional information.

Disclaimer

This information is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist.