

## Material Safety Data Sheet POLYETHYLENE TEREPHTHALATE

### Section 1 - Product Identification

Synonyms : Poly(ethyl benzene-1,4-dicarboxylate)  
Chemical Formula :  $(C_{10}H_8O_4)_n$   
Company Identification : Tradeasia International Pte. Limited  
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
Fax: +65-6225 6286  
Email: contact@chemtradeasia.com

Recommended use of the chemical and restrictions on use

Multiple uses such as thread in apparel and home furnishings, reinforcements in tires and conveyer belts.

### Section 2 – Composition/Information on Ingredients

Chemical Name	CAS No	Purity, %
Polyethylene Terephthalate	25038-59-9	100

### Section 3 – Hazards Identification

These products are not considered hazardous under OSHA hazard communication (29 CFR 1910.1200).

### Section 4 – First-Aid Measures

**Eye Contact:** Flush eyes immediately with water if irritation occurs.

**Skin Contact:** If contact with molten product occurs, cool the burn as quickly as possible and do not peel material from the skin; treat as for thermal burn.

**Ingestion:** PET is not expected to be absorbed from the gastrointestinal tract.

**Inhalation:** Not ordinarily required; induction of vomiting is not ordinarily required. Move to fresh air if symptomatic.

### Section 5 – Fire Fighting Measures

**Extinguishing Media:** Use water fog, foam, dry chemical or CO<sub>2</sub>.

**Special Protective Equipment for Fire Fighters:** Wear self-contained breathing protective clothing.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide.

(Combustion products will be comprised of carbon, hydrogen & oxygen. The exact composition will depend on the conditions of combustion).

**Unusual Fire and Explosion Hazards:** Powdered material may form dust-air mixture. Avoid accumulation and dispersion of dust to reduce explosion potential.

## Section 6 – Accidental Release Measures

**Methods for Cleaning Up:** Shovel and sweep or use industrial vacuum cleaner. Avoid generating dust clouds. Put into containers for reclaiming or disposal as permitted by applicable national, state and local regulations. In the event of an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.

## Section 7 – Handling and Storage

### 7.1. HANDLING

No special precautionary measures are required under anticipated conditions of use. Avoid accumulation and dispersion of dust to reduce explosion potential. Keep from contact with oxidizing materials.

### 7.2. STORAGE

Store away from oxidizing materials, in a cool, dry place. Keep container closed.

## Section 8 – Exposure Controls/Personal Protection

**Exposure Limits:** ACGIH Threshold Limit Value (TLV) not established.  
OSHA Permissible Exposure Limit (PEL) not established.

**Ventilation:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to condition. Supplementary local exhaust ventilation, or respiratory protection may be needed in poorly ventilated work areas.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

**Eye Protection:** In accordance with good industrial hygiene practice eye protection must be worn where necessary.

**Skin Protection:** It is a good industrial hygiene practice to minimize skin contact. When material is heated, wear gloves to protect against thermal burns.

**Recommended Decontamination Facilities:** Eye bath, washing facilities.

## Section 9 – Physical and Chemical Properties

<b>Boiling Point:</b>	Not available
<b>Melting Point:</b>	>220°C
<b>Flash Point:</b>	Not available; combustible solid
<b>Relative Density:</b>	1.33 - 1.45 g/cm <sup>3</sup> at 20° C
<b>Intrinsic Viscosity:</b>	0.45 - 1.0 dl/g

<b>Auto Ignition Temperature:</b>	Not Available
<b>Flammability:</b>	Flammable
<b>Solubility in Water:</b>	Negligible
<b>Vapor Pressure:</b>	Negligible
<b>Vapor Density:</b>	Not Applicable
<b>Odor:</b>	Negligible odor
<b>Volatile Fraction by Weight:</b>	Not Applicable

## Section 10 – Stability and Reactivity

<b>Stability</b>	Stable
<b>Hazardous Polymerization</b>	Will not occur
<b>Materials to Avoid</b>	Strong oxidizing agents

Fume removal equipment should be used with high temperature processes such as extruding, melting or drying. Small quantities of volatile decomposition products that may be irritating, toxic and combustible can be generated by molten polymer. Acetaldehyde (CAS No. 75-07-0) is the principal decomposition product.

## Section 11 – Toxicological Information

No adverse effects have been attributed to polyethylene terephthalate. Human patch testing has shown fibers to be essentially innocuous.

## Section 12 – Ecological Information

The material is not biodegradable and unlikely to bioconcentrate. In a spill situation it may be visually displeasing but is not expected to cause any adverse environmental effects.

## Section 13 – Disposal Considerations

Polyethylene terephthalate is not classified as hazardous waste.  
All waste material should be packaged, labeled, transported, disposed, incinerated or reclaimed in conformance with applicable laws & regulations and in conformance with good engineering practices. Reclaim where possible.

## Section 14 – Regulatory Information

This document has been prepared in accordance with the guidelines of Directive 91/155/EEC and OSHA Hazard Communication Standard 29 CFR 1910.1200.  
The product contains no OSHA hazardous chemicals.

Carcinogenicity Classification of the product's components present at 0.1% are more is as follows: IARC\*: Not listed

ACGIH\*: Not listed

NTP\*: Not listed

OSHA\*: Not listed

\* These abbreviations mean:

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygienists

NIOSH = National Institute of Occupational Safety and Health

IARC = International Agency for Research on Cancer

NTP = National Toxicity Program

## Section 15 : Additional Information

### Disclaimer of Liability

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.