

## Material Safety Data Sheet

### Diethyl Terephthalate

#### Section 1: Chemical Product and Company Identification

**Product Name** : Diethyl Terephthalate  
**Chemical Formula** :  $C_{10}H_{10}O_4$   
**Company Identification** : Tradeasia International Pte Limited  
133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
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Email: [contact@chemtradeasia.com](mailto:contact@chemtradeasia.com)

#### Section 2: Composition and Information on Ingredients

##### Composition:

Name	CAS #	% by Weight
Diethyl Terephthalate	6422-86-2	100

**Toxicological Data on Ingredients:** Diethyl Terephthalate LD50: Not available. LC50: Not available.

#### Section 3: Hazards Identification

**Potential Acute Health Effects:** Hazardous in case of eye contact (irritant), of inhalation and skin contact (irritant).

##### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

#### Section 4: First Aid Measures

##### Eye Contact:

Wash eyes with plenty water over 15 minutes, holding eyelids open. Seek medical assistance promptly if there is irritation.

##### Skin Contact:

Wash with soap and plenty water over 15 minutes. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered. Seek medical assistance.

**Serious Skin Contact:** Not available.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Serious Inhalation:** Not available.

**Ingestion:**

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Serious Ingestion:** Not available.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** 238°C / 460°F (closed cup)

**Flammable Limits:** Not applicable.

**Products of Combustion:** Carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments.

**Fire Hazards in Presence of Various Substances:** Not applicable.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:** firefighters must wear SCBA.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

**Small Spill:** Dyke to control spillage and prevent environmental contamination.

**Large Spill:** Recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for recycling or disposal.

## Section 7: Handling and Storage

### Precautions:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

### Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Personal Protection:

Safety goggles. Boots. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Rubber Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## Section 9: Physical and Chemical Properties

Physical state and appearance	: Viscous liquid
Odor	: Bitter.
Taste	: Not available.
Molecular Weight	: 390.55 g/mole
Color	: Colorless.

<b>pH (1% soln/water)</b>	: Not available.
<b>Boiling Point</b>	: 383°C (721°F)
<b>Melting Point</b>	: -48°C (-55°F)
<b>Critical Temperature</b>	: Not available.
<b>Specific Gravity</b>	: 0.983 (Water = 1)
<b>Vapor Pressure</b>	: Not applicable.
<b>Vapor Density</b>	: Not available.
<b>Volatility</b>	: Not available.
<b>Odor Threshold</b>	: Not available.
<b>Water/Oil Dist. Coeff.</b>	: Not available.
<b>Ionicity (in Water)</b>	: Not available.
<b>Dispersion Properties</b>	: Not available.
<b>Solubility:</b>	
Soluble in water. Soluble in acetone, ethanol, aromatic hydrocarbins.	

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Heating at high temperatures.

**Incompatibility with various substances:** Strong oxidizers ,strong bases.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:**

Carbon monoxide and dioxide may form when heated to decomposition.The product may produce irritating fume when is heated to decomposition.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion. Skin absorption

**Toxicity to Animals:** LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:** Not available.



#### **Other Toxic Effects on Humans:**

Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

#### **Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Causes eye irritation. Inhalation: Causes respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation. Chronic Potential Health Effects: Prolonged exposure to the substance alters the reproductive function and can produce target organs damages.

### **Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

#### **Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

### **Section 13: Disposal Considerations**

#### **Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### **Section 14: Transport Information**

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** : Not applicable.

**Special Provisions for Transport:** Not applicable.

### **Section 15: Other Regulatory Information**

**Federal and State Regulations:**

TSCA 8(b) inventory: Dioctyl Terephthalate

**Other Regulations:** Not available.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):**

R36/37- Irritating to eyes and respiratory system. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

**HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 0

**Flammability:** 1

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

## Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

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