

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 1,2,7,8-Diepoxyoctane  
**Synonyms:** Not available  
**Company Identification:** PI Chemicals Ltd.  
5rd Floor, 88 Cailun Road  
Zhangjiang Hi-Tech Park  
Pudong New Area, Shanghai China, 201203  
**Telephone Number:** 86-21-58953700  
**Fax Number:** 86-21-58953701

### Section 2 - Product Information

**Catalog Number:** PI-13818  
**CAS Number:** 2426-07-5  
**MDL Number:** MFCD00005155  
**EC Number:** Not available  
**Purity:** 97%

### Section 3 - Physical and Chemical Properties

**Physical state:** Liquid  
**Color:** Colorless  
**Odor:** Not available  
**Molecular Formula:** C<sub>8</sub>H<sub>14</sub>O<sub>2</sub>  
**Molecular Weight:** 142.2  
**Freezing/Melting Point:** Not available  
**Boiling Point:** 240 °C(lit.) / 120-122°C/20mmHG  
**Flash Point:** 208 °F/98 °C  
**Autoignition Temperature:** Not available  
**Refractive Index (nD20):** Not available  
**Density:** 0.997 g/mL at 25 °C(lit.)  
**Decomposition Temperature:** Not available  
**Solubility:** Soluble in water

### Section 4 - Hazards Identification

**Eye:** Causes eye irritation.

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**Skin:** Causes skin irritation. Harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the digestive tract. Toxic if swallowed.  
**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

### **Section 5 - First Aid Measures**

**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

### **Section 6 - Stability and Reactivity**

**Chemical Stability:** Stable under recommended temperatures and pressures.  
**Materials to avoid:** Strong oxidizing agents, Strong acids.  
**Conditions to Avoid:** Incompatible materials.  
**Hazardous Decomposition Products:** Carbon oxides.  
**Hazardous Polymerization:** Has not been reported.

### **Section 7 - Handling and Storage**

**Handling:** Avoid all direct contact with material. Wash thoroughly after handling. Have safety shower and eye wash available. Do not get in eyes, on skin, on clothing.  
**Storage:** Keep container tightly closed in a dry and well-ventilated place.

### **Section 8 - Personal Protection**

**Eyes:** Wear appropriate protective eyeglasses.  
**Skin:** Wear appropriate protective gloves to prevent skin exposure.  
**Clothing:** Wear appropriate protective clothing to prevent skin exposure.  
**Respirators:** Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### **Section 9 - Fire and Explosion Hazard Data**

**General Information:** As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.  
**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

### **Section 10 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

### **Section 11 - Toxicological Information**

**RTECS#:** CAS# 2426-07-5: RG9450000.

**LD50/LC50:** RTECS: Not available.

**Carcinogenicity:** 1,2,7,8-Diepoxyoctane

—Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

### **Section 12 - Environmental information**

Not available

### **Section 13 - Disposal Consideration**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

### **Section 14 - Transport Information**

**IATA:** UN 2810 6.1/PG 3.

**IMO:** UN 2810 6.1/PG 3.

**RID/ADR:** UN 2810 6.1/PG 3.

### **Section 15 - Regulatory Information**

#### **European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Indication of Danger: Toxic

Risk Phrases:

R 22: Harmful if swallowed.

R 24: Toxic in contact with skin.

Safety Phrases:

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

#### **WGK (Water Danger/Protection)**

CAS#2426-07-5: 3.

#### **Canada**

CAS# 2426-07-5: Not available.

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**US Federal****TSCA**

**CAS# 2426-07-5 is not listed on the TSCA Inventory. It is for research and development use only.**

***Section 16 - Additional Information***

**MSDS Creation Date:** March 23, 2009  
**Update:** April 15, 2010

*The above information is believed to be accurate and represents the best knowledge available to us currently. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall PI Chemicals, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PI Chemicals has been advised of the possibility of such damages.*