

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Dithieno[3,2-b:2',3'-d]thiophene  
**Synonyms:**  
**Company Identification:** PI Chemicals Ltd.  
Building B, 633 E Shan Road, Pudong New Area  
Shanghai 200127, China  
**Telephone Number:** 86-21-58953700  
**Fax Number:** 86-21-58953701

### Section 2 - Product Information

**Catalog Number:** PI-35135  
**CAS Number:** 3593-75-7  
**MDL Number:** MFCD00506977  
**EC Number:** Not available  
**Purity:** 98%

### Section 3 - Physical and Chemical Properties

**Physical state:** Crystalline solid  
**Color:** Yellow  
**Molecular Formula:** C<sub>8</sub>H<sub>4</sub>S<sub>3</sub>  
**Molecular Weight:** 196.3  
**Freezing/Melting Point:** 65.0 - 70.0 °C  
**Boiling Point:** Undertermined  
**Flash Point:** 119.5 °C  
**Autoignition Temperature:** Undertermined  
**Refractive Index (nD20):** Undertermined  
**Density:** Undertermined  
**Decomposition Temperature:** Undertermined  
**Solubility:** Undertermined

### Section 4 - Hazards Identification

**Eye:** May cause eye irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

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

- Eye:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- Skin:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
- Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

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

- Chemical Stability:** Stable under recommended storage conditions.
- Materials to avoid:** Oxidizing agents.
- Conditions to Avoid:** Not available.
- Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide.
- Hazardous Polymerization:** Will not occur.

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

- Handling:** Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
- Storage:** Keep tightly closed.

## **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# 3593-75-7: Not available.  
**LD50/LC50:** RTECS # Not available.  
**Carcinogenicity:** Dithieno[3,2-b:2',3'-d]thiophene -Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

## **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:** This substance is considered to be non-hazardous for transport.  
**IMO:** This substance is considered to be non-hazardous for transport.  
**RID/ADR:** This substance is considered to be non-hazardous for transport.

## **Section 15 - Regulatory Information**

### **EU ADDITIONAL CLASSIFICATION**

**Symbol of Danger:** Xn

**Indication of Danger:** Harmful.

**R:** 22-36

**Risk Statements:** Harmful if swallowed. Irritating to eyes.

**S:** 26

**Safety Statements:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### **US CLASSIFICATION AND LABEL TEXT**

**Indication of Danger:** Toxic (USA) Harmful (EU).

**Risk Statements:** Harmful if swallowed. Irritating to eyes.

**Safety Statements:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### **UNITED STATES REGULATORY INFORMATION**

**SARA LISTED:** No

### **CANADA REGULATORY INFORMATION**

**WHMIS Classification:** This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**DSL:** No

**NDSL:** No

### ***Section 16 - Additional Information***

**MSDS Creation Date:** April 5, 2009

**Update:** 20 December, 2010

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