

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 3,3'-Dibromo-2,2'-bithiophene  
**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-35190  
**CAS Number:** 51751-44-1  
**MDL Number:** MFCD00114806  
**Purity:** 97%

### Section 3 - Physical and Chemical Properties

**Physical state:** Powder  
**Color:** Green  
**Molecular Formula:** C<sub>8</sub>H<sub>4</sub>Br<sub>2</sub>S<sub>2</sub>  
**Molecular Weight:** 324.06  
**Freezing/Melting Point:** 97 - 101 °C (207 - 214 °F)  
**Boiling Point:** Undetermined  
**Flash Point:** Undetermined  
**Autoignition Temperature:** Undetermined  
**Refractive Index (nD20):** Undetermined  
**Density:** Undetermined  
**Decomposition Temperature:** Undetermined  
**Solubility:** Undetermined

### Section 4 - Hazards Identification

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes:** Causes eye irritation.  
**Ingestion:** Toxic if swallowed.

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

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>If inhaled:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
<b>In case of eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Materials to avoid:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, Sulphur oxides, Hydrogen bromide gas.

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

<b>Handling:</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
<b>Storage:</b>	Keep container tightly closed in a dry and well-ventilated place.

## **Section 8 - Personal Protection**

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

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

<b>General Information:</b>	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.
<b>Extinguishing Media:</b>	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# 51751-44-1: Not available.

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

**Carcinogenicity:** 3,3'-Dibromo-2,2'-bithiophene  
–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:** UN number: 2811 Class: 6.1 Packing group: III.

**IMO:** UN number: 2811 Class: 6.1 Packing group: III.

**RID/ADR:** UN number: 2811 Class: 6.1 Packing group: III.

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

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

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Indication of Danger: Toxic

Risk Phrases:

R 25: Toxic if swallowed.

R 41: Risk of serious damage to eyes.

Safety Phrases:

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 39: Wear eye/face protection.

WGK (Water Danger/Protection)

CAS#51751-44-1: 3.

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

**MSDS Creation Date:** August 6, 2009

**Update:** April 20, 2011

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