

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

<i>MSDS Name:</i>	2-Mercaptothiophene
<i>Synonyms:</i>	Not available.
<i>Company Identification:</i>	PI Chemicals Ltd. Building B, 633 E Shan Road, Pudong New Area Shanghai 200127, China
<i>Telephone Number:</i>	86-21-58953700
<i>Fax Number:</i>	86-21-58953701

Section 2 - Product Information

<i>Catalog Number:</i>	PI-27908
<i>CAS Number:</i>	7774-74-5
<i>MDL Number:</i>	MFCD00051666
<i>EC Number:</i>	231-881-1
<i>Purity:</i>	98.0%

Section 3 - Physical and Chemical Properties

<i>Physical state:</i>	Liquid
<i>Color:</i>	Yellow
<i>Molecular Formula:</i>	C ₄ H ₄ S ₂
<i>Molecular Weight:</i>	116.20
<i>Freezing/Melting Point:</i>	Undetermined
<i>Boiling Point:</i>	129 °C
<i>Flash Point:</i>	Undetermined
<i>Autoignition Temperature:</i>	Undetermined
<i>Refractive Index (n_D20):</i>	Undetermined
<i>Density:</i>	1.252 g/cm ³ at 25 °C (77 °F)
<i>Decomposition Temperature:</i>	Undetermined
<i>Solubility:</i>	Undetermined

Section 4 - Hazards Identification

<i>Eye:</i>	Causes eye irritation.
<i>Skin:</i>	Causes skin irritation. Harmful if absorbed through the skin.
<i>Ingestion:</i>	May cause irritation of the digestive tract. Toxic if swallowed.
<i>Inhalation:</i>	May be harmful if inhaled. Cause respiratory tract irritation.

Section 5 - First Aid Measures

- Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Skin:** Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
- Ingestion:** Get medical aid immediately. Wash mouth out with water.
- 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.

Section 6 - Stability and Reactivity

- Chemical Stability:** Stable under normal temperatures and pressures.
- Materials to avoid:** Strong oxidizing agents.
- Conditions to Avoid:** Avoid light.
- Hazardous Decomposition Products:** Carbon oxides, Sulphur oxides
- Hazardous Polymerization:** Has not been reported.

Section 7 - Handling and Storage

- Handling:** Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required. Keep away from sources of ignition - No smoking.
- Storage:** Store in a cool, dry place. Store in a tightly closed container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 - 8 °C

Section 8 - Personal Protection

- Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 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, alcohol-resistant foam, dry chemical or carbon dioxide.

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#7774-74-5: Not available.

LD50/LC50: Not available.

Carcinogenicity: 2-Mercaptothiophene - 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	RID/ADR
<i>Shipping Name:</i>	Aviation regulated liquid, n.o.s. (2-Mercaptothiophene)	Aviation regulated liquid, n.o.s. (2-Mercaptothiophene)
<i>Hazard Class:</i>	9	9
<i>UN Number:</i>	3334	3334

IMO: Not dangerous goods.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Signal word: Danger

Hazard statement(s)

H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Risk Phrases:

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:

- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S27: Take off immediately all contaminated clothing
- S28: After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)
- S29: Do not empty into drains
- S30: Never add water to this product
- S33: Take precautionary measures against static discharges
- S35: This material and its container must be disposed of in a safe way
- S36: Wear suitable protective clothing

WGK (Water Danger/Protection)

CAS# 7774-74-5: 3

Canada

CAS# 7774-74-5: Not available

US Federal**TSCA**

CAS#7774-74-5 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information**MSDS Creation Date:** May 11, 2006**Update:** Feb 5, 2012

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