

# **Material Safety Data Sheet**

# Section 1 - Chemical Product and Company Identification

MSDS Name:	2-Bromo-4-chlorotoluene	
Synonyms:	2-Bromo-4-chloro-1-methylbenzene	
Company Identification:	PI Chemicals Ltd.	
	Room 6-306, Building 2	
	1341 Pudong South Road	
	Pudong New Area, Shanghai 200212, China	
Telephone Number:	86-21-51389368	
Fax Number:	86-21-51389367	
Emergency Number:	86-21-51389369	

# Section 2 - Product Information

Catalog Number:	PI-20668
CAS Number:	27139-97-5
MDL Number:	Not available
EC Number:	None
Purity:	99.4%

# Section 3 - Physical and Chemical Properties

Physical state:	Liquid
Color:	Pale yellow
Odor:	Not available
Molecular Formula:	C <sub>7</sub> H <sub>6</sub> BrCl
Molecular Weight:	205.48
Freezing/Melting Point:	Not available
Boiling Point:	Not available
Flash Point:	Not available
Autoignition Temperature:	Not available
Refractive Index (nD20):	Not available
Density:	Not available
Decomposition Temperature:	Not available
Solubility:	Not available

# Section 4 - Hazards Identification

*Eye:* Causes eye irritation.



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:* 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:	Incompatible materials.	
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen	
	bromide.	
Hazardous Polymerization:	Will not occur	

## 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.
- *Storage:* Store in a cool, dry well ventilated place away from sources of heat and incompatible substances. Keep container tightly closed when not in use.

#### 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, 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#27139-97-5: Not available
LD50/LC50:	RTECS: Not available.
Carcinogenicity:	2-Bromo-4-chlorotoluene - 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	IMO	<b>RID/ADR</b>
Shipping Name:	TOXIC SOLID, ORGANIC, N.O.S.*	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class:	6.1	6.1	6.1
UN Number:	2811	2811	2811
Packing Group:	III	III	III

## Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols: Xi Indication of Danger: Irritant Risk Phrases: R 22: Harmful if swallowed.



Safety Phrases:

S 24/25: Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. WGK (Water Danger/Protection)

CAS#27139-97-5: 3

Canada

CAS#27139-97-5: Not available

US Federal

## TSCA

CAS# 27139-97-5 is not listed on the TSCA Inventory. It is for research and development use only.

## Section 16 - Additional Information

MSDS Creation Date:	March 25, 2006
Update:	December 26, 2007

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