

## Material Safety Data Sheet

### Section 1 – Chemical Product and Company Identification

**MSDS Name:** 4-Bromomethyl benzonitrile  
**Synonyms:** alpha-Bromo-p-tolunitrile  
**Company Identification:** Shanghai 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-31089  
**CAS #:** 17201-43-3  
**Purity:** 98.0%  
**EINECS#** 241-246-0

### Section 3 – Physical and Chemical Properties

**Appearance:** White – beige crystalline powder  
**Odor:** Not available  
**Molecular Formula:** C<sub>8</sub>H<sub>6</sub>BrN  
**Molecular Weight:** 196.04  
**Freezing/Melting Point:** 113 - 117°C  
**Boiling Point:** Not available  
**Flash Point:** Not available  
**Refractive Index:** Not available  
**Density:** Not available  
**Decomposition Temperature:** Not available  
**Solubility:** Insoluble in water

### Section 4 – Hazards Identification

**Eye:** Causes eye burns. Lachrymator (substance which increases the flow of tears).  
**Skin:** Causes skin burns. Harmful if absorbed through the skin.

**Ingestion:** Causes gastrointestinal tract burns. Toxic if swallowed.

**Inhalation:** Harmful if inhaled. Causes chemical burns to the respiratory tract. The toxicological properties of this substance have not been fully investigated.

## 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, bases, alcohols, amines, steel.

**Conditions to Avoid:** Incompatible materials, moisture.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen bromide, nitrogen.

**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.

**Storage:** Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

## 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#: 17201-43-3: Unlisted

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

**Carcinogenicity:** 4-Bromomethylbenzotrile - 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	RID/ADR
<b>Shipping Name:</b>	TOXIC SOLID, ORGANIC, N.O.S.*	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
<b>Hazard Class:</b>	8	8	8
<b>UN Number:</b>	1759 2923	1759 2923	1759 2923
<b>Packing Group:</b>	II	II	II

## Section 15 – Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 34 Causes burns.

Safety Phrases:

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

S 28A After contact with skin, wash immediately with plenty of water.

WGK (Water Danger/Protection)

CAS# 17201-43-3: Not available

Canada

CAS# 17201-43-3 is listed on Canada's DSL List

### US Federal

#### TSCA

CAS# 17201-43-3 is listed on the TSCA Inventory.

## Section 16 – Additional Information

**MSDS Creation Date:** 2/20/2007

**Update:** Original

*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.*