

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 5-Methyl-3-pyridineboronic acid  
**Synonyms:** 5-Methylpyridine-3-boronic acid  
**Company Identification:** PI Chemicals Ltd.  
Room 512, Building 1  
88 Cailun Road, Zhangjiang Hi-Tech park,  
Pudong New Area, Shanghai 201203, China  
**Telephone Number:** 86-21-58953700  
**Fax Number:** 86-21-58953701

### Section 2 - Product Information

**CAS Number:** 173999-18-3  
**MDL Number:** MFCD03428528  
**Purity:** 98%

### Section 3 - Physical and Chemical Properties

**Physical state:** Powder  
**Color:** White  
**Odor:** Irritant  
**Molecular Formula:** C<sub>6</sub>H<sub>8</sub>BNO<sub>2</sub>  
**Molecular Weight:** 136.94  
**Freezing/Melting Point:** 125-130 °C  
**Boiling Point:** Not available  
**Flash Point:** Not available  
**Autoignition Temperature:** Not available  
**Refractive Index (n<sub>D</sub>20):** 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 be harmful 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.
- Conditions to avoid:** Incompatible materials, combustible materials.
- Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides (NO<sub>x</sub>) and other materials.
- Polymerization:** Has not been reported.

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

- Handling:** Avoid all direct contact with material. Wash thoroughly after handling. Have safety shower and eye wash available. Do not get in eyes, on skin, on clothing. Do not ingest or inhale. Use only in a chemical fume hood.
- Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## **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**

<b>RTECS#:</b>	CAS# 173999-18-3: None listed
<b>LD50/LC50:</b>	RTECS: Not available.
<b>Carcinogenicity:</b>	5-Methyl-3-pyridineboronic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	The toxicological properties have not been fully investigated.

## **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:** Not a dangerous chemical for transport.

**IMO:** Not a dangerous chemical for transport.

**RIDADR:** Not a dangerous chemical for transport.

## **Section 15 - Regulatory Information**

European/International Regulations

European Labeling in Accordance with EC Directives

**Hazard Symbols:** Xi

**Indication of Danger:** Irritant

**Risk Statements:**

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

R42/43- May cause sensitization by inhalation and skin contact.

**Safety Statements:**

S37/39- Wear suitable gloves and eye/face protection.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**WGK (Water Danger/Protection)**

CAS# 173999-18-3: Not available

**Canada**

**US Federal**

**TSCA**

*CAS# 173999-18-3 is not listed on the TSCA Inventory. It is for research and development use only.*

**Section 16 - Additional Information**

**MSDS Creation Date:** Jan 23, 2009

**Update:** Feb 10, 2009

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