

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Boc-L- aspartic acid 4-methyl ester  
**Synonyms:** Boc-Asp(OMe)-OH  
**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-35220  
**CAS Number:** 59768-74-0  
**MDL number:** MFCD00078971  
**Purity:** 98%

### Section 3 - Physical and Chemical Properties

**Physical state:** Powder  
**Color:** White  
**Molecular Formula:** C<sub>10</sub>H<sub>17</sub>NO<sub>6</sub>  
**Molecular Weight:** 247.25  
**Freezing/Melting Point:** 71 °C (160 °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

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

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

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

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

- Chemical Stability:** Stable under recommended storage conditions.
- Materials to Avoid:** Strong oxidizing agents.
- Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides (NO<sub>x</sub>).
- Hazardous Polymerization:** Has not been reported.

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

- Handling:** 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.
- Storage:** Keep container tightly closed in a dry and well-ventilated place. Keep away from light.

## **Section 8 - Personal Protection**

- Eyes:** Wear appropriate protective eyeglasses.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Use an 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# 59768-74-0: Not available.  
**LD50/LC50:** RTECS # Not available.  
**Carcinogenicity:** Boc-L-aspartic acid 4-methyl ester -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:** Not dangerous goods.  
**IMO:** Not dangerous goods.  
**RID/ADR:** Not dangerous goods.

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

**Hazard Symbols:** Xi

**Indication of Danger:** Irritant

**Risk Phrases:**

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

**Safety Phrases:**

**S 36:** Wear suitable protective clothing.

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

**WGK (Water Danger/Protection)**

**CAS# 59768-74-0:** 3

**US Federal**

**TSCA**

CAS# 59768-74-0 is not listed on the TSCA Inventory. It is for research and development use only.

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**Section 16 - Additional Information**

**MSDS Creation Date:** 7 May, 2010  
**Update:** 18 January, 2012

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