

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

*MSDS Name:* (2R,3S)-Phenylisoserine hydrochloride  
*Synonyms:*  
*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-33678  
*CAS Number:* 132201-32-2  
*Purity:* 98.0%

### Section 3 - Physical and Chemical Properties

*Physical state:* Powder  
*Color:* Off-white  
*Odor:* Not available  
*Molecular Formula:* C<sub>9</sub>H<sub>12</sub>ClNO<sub>3</sub>  
*Molecular Weight:* 217.65  
*Freezing/Melting Point:* Not available  
*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 cause irritation of the digestive tract. Toxic if swallowed.  
*Inhalation:* May be harmful if inhaled. Causes respiratory tract irritation.

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

<i>Eye:</i>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<i>Skin:</i>	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.
<i>Ingestion:</i>	Get medical aid immediately. Wash mouth out with water.
<i>Inhalation:</i>	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**

<i>Chemical Stability:</i>	Stable under normal temperatures and pressures.
<i>Materials to avoid:</i>	Strong oxidizing agents.
<i>Conditions to Avoid:</i>	Incompatible materials.
<i>Hazardous Decomposition Products:</i>	Carbon monoxide, carbon dioxide, nitrogen oxides.
<i>Hazardous Polymerization:</i>	Has not been reported.

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

<i>Handling:</i>	Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.
<i>Storage:</i>	Store in a cool, dry place. Store in a tightly closed container.

### **Section 8 - Personal Protection**

<i>Eyes:</i>	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.
<i>Skin:</i>	Wear appropriate protective gloves to prevent skin exposure.
<i>Clothing:</i>	Wear appropriate protective clothing to prevent skin exposure.
<i>Respirators:</i>	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**

<i>General Information:</i>	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.
<i>Extinguishing Media:</i>	Use water spray, dry chemical, carbon dioxide, or appropriate foam.

### **Section 10 - Accidental Release Measures**

<i>General Information:</i>	Use proper personal protective equipment as indicated in Section 8.
<i>Spills/Leaks:</i>	Vacuum or sweep up material and place into a suitable disposal container.

### ***Section 11 - Toxicological Information***

**RTECS#:** CAS#132201-32-2: Not available

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

**Carcinogenicity:** (2R,3S)-Phenylisoserine hydrochloride - 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:** No data available

**IMO:** No data available

**RID/ADR:** No data available

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

WGK (Water Danger/Protection)

CAS#132201-32-2: 3

Canada

CAS#132201-32-2: Not available

#### *US Federal*

##### *TSCA*

CAS# 132201-32-2 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: March 15, 2006  
Update: November 2, 2007

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