

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:		
Product name:	Boc-Glu-OtBu	
Synonyms:	Boc-L-glutamic acid 1-tert-butyl ester	
Catalog number:	PI- 25381	
Relevant identified uses of the substance or mixture and uses advised against		
Identified uses:	Laboratory chemicals, Manufacture of substances	
Details of the supplier of the safety data sheet		
Company identification:	PI Chemicals Ltd.	
	633 Eshan Road,	
	Pudong New Area, Shanghai China, 201203	
Telephone number:	+86-21-58953700	
Fax number:	+86-21-58953701	
E-mail address:	info@pipharm.com	
Emergency telephone number		
Emergency number:	+86-21-58953706	

Section 2 - Hazards Identification

Classification of the substance or mixture:

Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 This substance is not classified as dangerous according to Directive 67/548/EEC.

Section 3: Composition & Information on Ingredients

Molecular formula:	C14H25NO6
Molecular weight:	303.35

Component		Concentration
CAS Number:	24277-39-2	98%
EC Number:	No data available	

Section 4 - First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.



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Skin:	Wash skin with plenty of water at least 15 minutes while removing contaminated clothing	
	and shoes. Get medical aid if irritation develops and persists.	
Ingestion:	Wash mouth out with water. Get medical aid immediately.	
Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give	
	oxygen. If not breathing, give artificial respiration. Get medical aid.	

Section 5 – Fire-Fighting Measures

Extinguishing media:Use water spray, dry chemical, carbon dioxide, or appropriate foam.Special hazards arising from the substance or mixture:Carbon oxides; nitrogen oxidesAdvice for firefighters:Wear a self-contained breathing apparatus for fire fighting if necessary

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.Environmental precautions:Prevent further spillage or leakage when safe and capableMethods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:

Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

Eye/Face protection:

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in



accordance with applicable laws. Wash and dry hands. Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties

Physical state:	Powder
Color:	White to off-white
Odour:	Odorless
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability(solid, gas):	No data available
Upper/lower flammability	
or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Section 10-Stability and Reactivity

Reactivity:	No data available
Chemical stability:	No data available
Possibility of hazardous reactions:	No data available
Conditions to avoid:	No data available
Incompatible materials:	Strong oxidizing agents
Hazard Decomposition products:	Carbon oxides; nitrogen oxides

Section 11 - Toxicological Information

Acute toxicity: Component: Boc-Glu-OtBu LD50 No data available Skin corrosion/irritation:

No data available



Serious eye damage/eye irritation: No data available Respiratory or skin sensitization: No data available Germ cell mutagenicity: No data available **Carcinogenicity:** Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. **Reproductive toxicity:** No data available Specific target organ toxicity(STOT)-single exposure: No data available Specific target organ toxicity (STOT)-repeated exposure: No data available Aspiration hazard: No data available Additional information: **RTECS#:** not available

Section 12 – Ecological Information

Toxicity:	No data available
Component: Boc-Glu-OtBu	
LC50 No data available	
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Component: Boc-Glu-OtBu	No data available
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	No data available
Other adverse effects:	No data available

Section 13 - Disposal Consideration

 Waste treatment methods

 Product:
 Dispose of in accordance with federal, state and local environmental regulations

 Contaminated packaging:
 Dispose of as unused product

Section 14 - Transport Information

IATA Not dangerous goods IMDG Not dangerous goods RID/ADR Not dangerous goods DOT(US) Not dangerous goods



Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture No data available Chemical safety assessment:No data available

Section 16 – Other Information

SDS creation date:	Nov 19, 2012
Update:	May 14, 2014

Disclaimer:

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.