*This SDS for user in China - Not correspond to the regulation of other regions.



TCI (Shanghai) DEVELOPMENT CO., LTD.

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name:	Ethyl N-(tert-Butoxycarbonyl)-L-pyroglutamate
Product code:	E1135
Company:	TCI (Shanghai) DEVELOPMENT CO., LTD.
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Responsible Department:	Sales Department
Telephone:	+86-(0)21-67121386
Fax:	+86-(0)21-67121385
e-mail:	Sales-CN@TCIchemicals.com
Emergency telephone:	0532-83889090
Revision number:	1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture	
PHYSICAL HAZARDS	Not classified
HEALTH HAZARDS	Not classified
ENVIRONMENTAL HAZARDS	Not classified
Label elements	
Pictograms or hazard symbols	None
Signal word	No signal word
Hazard statements	None
Precautionary statements	None

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Ethyl N-(tert-Butoxycarbonyl)-L-pyroglutamate
Percent:	>97.0%(HPLC)(N)
CAS RN:	144978-12-1
Synonyms:	 (S)-1-(tert-Butoxycarbonyl)-5-oxopyrrolidine-2-carboxylic Acid Ethyl Ester , (S)-1-Boc-5-oxopyrrolidine-2-carboxylic Acid Ethyl Ester , Boc-Pyr-OEt , Ethyl (S)-1-(tert-Butoxycarbonyl)-5-oxopyrrolidine-2-carboxylate , Ethyl (S)-1-Boc-5-oxopyrrolidine-2-carboxylate , Ethyl N-Boc-L-pyroglutamate , N-(tert-Butoxycarbonyl)-L-pyroglutamic Acid Ethyl Ester , N-Boc-L-pyroglutamic Acid Ethyl Ester
Chemical Formula:	C12H19NO5
4. FIRST AID MEASURES	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing
media:Dry chemical, foam, water spray, carbon dioxide.Specific hazards arising from
the chemical:Take care as it may decompose upon combustion or in high temperatures to
generate poisonous fume.Precautions for firefighters:Fire-extinguishing work is done from the windward and the suitable
fire-extinguishing method according to the surrounding situation is used.
Uninvolved persons should evacuate to a safe place. In case of fire in the
surroundings: Remove movable containers if safe to do so.

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	Use personal protective equipment. Keep people away from and upwind of	
protective equipment and	spill/leak. Entry to non-involved personnel should be controlled around the leakage	
emergency procedures:	area by roping off, etc.	
Environmental precautions:	Prevent product from entering drains.	
Methods and materials for	Sweep dust to collect it into an airtight container, taking care not to disperse it.	
containment and cleaning	Adhered or collected material should be promptly disposed of, in accordance with	
up:	appropriate laws and regulations.	

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any

incompatibilities

Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
	Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection:	Dust respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Almost white
Odour:	No data available
pH:	No data available
Melting point/freezing point:	54°C
Boiling point/range:	No data available
Flash point:	No data available
Flammability or explosive	
limits:	
Lower:	No data available
Upper:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	
Soluble:	Methanol

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous	No special reactivity has been reported.
reactions:	
Incompatible materials:	Oxidizing agents
Hazardous decomposition	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)
products:	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available

12. ECOLOGICAL INFORMATION

No data available
No data available
No data available
No data available
No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	Does not correspond to the classification standard of the United Nations
UN-No:	Not listed

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company name of written contents Company: TCI (Shanghai) DEVELOPMENT CO., LTD. Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China Department: Technical Information Department Emergency telephone: 0532-83889090 Fax: +86-(0)21-67121385 This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data

The products are supposed to be used for being of the internation were the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.