Revision number: 1 **Revision date: 11/29/2010** Page 1 of 4

Butoxycarbonylaminomethyl)cyclohexanecarboxylic

Acid

**Revision date: 11/29/2010** 

# SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product name:** trans-4-(tert-Butoxycarbonylaminomethyl)cyclohexanecarboxylic Acid

B3253 **Product code:** 

TCI (Shanghai) DEVELOPMENT CO., LTD. Company:

Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China

**Responsible Department:** Sales Department Telephone: +86-(0)21-67121386 +86-(0)21-67121385 Fax: sales@tcishanghai.com.cn e-mail:

**Revision number:** 

# 2. HAZARDS IDENTIFICATION

Classification of the GHS

**PHYSICAL HAZARDS** Not classified Not classified **HEALTH HAZARDS** Not classified **ENVIRONMENTAL HAZARDS** 

GHS label elements

Pictograms or hazard symbols None

Signal word No signal word

**Hazard statement** None **Precautionary statements** None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Component(s): trans-4-(tert-Butoxycarbonylaminomethyl)cyclohexanecarboxylic Acid

>98.0%(GC)(T) Percent: **CAS Number:** 27687-14-5

Synonyms: trans-4-(Boc-aminomethyl)cyclohexanecarboxylic Acid

**Chemical Formula:**  $C_{13}H_{23}NO_4$ 

### 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.

Remove/Take off immediately all contaminated clothing. Rinse skin with Skin contact:

water/shower. If skin irritation or rash occurs: Get medical advice/attention.

**Eve 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: Take care as it may decompose upon combustion or in high temperatures to

generate poisonous fume.

### 

# 5. FIRE-FIGHTING MEASURES

**Specific methods:** 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** When extinguishing fire, be sure to wear personal protective equipment.

equipment for firefighters:

# 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions,** Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by

emergency procedures: 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

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.

**Storage** 

**Storage conditions:** Keep container tightly closed. Store in a cool and dark place.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Law is followed.

# 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

Color: White - Very pale yellow Odor: No data available PH: No data available

Melting point/freezing point: 135 °C

**Boiling Point/Range:**No data available
Flash Point:
No data available

**Explosive limits** 

Lower:No data availableUpper:No data availableDensity:No data availableSolubility:Soluble in : Methanol

# 10. STABILITY AND REACTIVITY

**Stability:** Stable under proper conditions.

**Reactivity:** No special reactivity has been reported.

Incompartible materials: oxidizing agents

Butoxycarbonylaminomethyl)cyclohexanecarbo xylic Acid

#### 10. STABILITY AND REACTIVITY

Hazardous Decomposition Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx)

**Products:** 

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** No data available Skin corrosion/irritation: No data available No data available Serious eye

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

**Ecotoxicity:** 

Fish: No data available Crustacea: No data available No data available Algae: Persistence / degradability: No data available **Bioaccumulative** No data available

potential(BCF): Mobillity in soil

No data available log Pow: No data available Soil adsorption (Koc): No data available Henry's Law

constant(PaM³/mol):

### 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

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): 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

R&D (Information Management) Department **Department:** 

Telephone: +86-(0)21-67121388\*461 Fax: +86-(0)21-67121385

trans-4-(tert-Butoxycarbonylaminomethyl)cyclohexanecarbo xylic Acid

TCI (Shanghai) DEVELOPMENT CO., LTD. Revision number: 1

Revision date: 11/29/2010 Page 4 of 4

### **16. OTHER INFORMATION**

This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority 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 "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration 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.