

TCI (Shanghai) DEVELOPMENT CO., LTD.

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Benzyltriethylammonium Borohydride

Product code: B3128

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

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Category 2

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Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Substances and mixtures which, in contact

with water, emit flammable gases

HEALTH HAZARDS

Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1
ENVIRONMENTAL HAZARDS Not classified

Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements In contact with water releases flammable gases
Causes severe skin burns and eye damage

Precautionary statements

[Prevention] Do not allow contact with water.

Handle under inert gas. Protect from moisture.

Do not breathe dusts or mists.

Wash hands and face thoroughly after handling.

Wear protective gloves, protective clothing, face protection.

[Response] IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a

POISON CENTER or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash

contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor.

Brush off loose particles from skin. Immerse in cool water or wrap with wet

bandages.

In case of fire: Use dry chemical or dry sand to extinguish.

[Storage] Store in a dry place. Store in a closed container.

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Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Benzyltriethylammonium Borohydride

>90.0%(T) Percent: CAS RN: 85874-45-9 **Chemical Formula:** C₁₃H₂₆BN

4. FIRST AID MEASURES

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation:

Immediately call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty

of soap and water. Immediately call a POISON CENTER or doctor/physician.

Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact:

and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT

induce vomiting.

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, dry sand.

Unsuitable extinguishing

media:

Specific hazards arising from Take care as it may decompose upon combustion or in high temperatures to

the chemical: generate poisonous fume.

Water

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, protective equipment and emergency procedures:

spill/leak. Entry to non-involved personnel should be controlled around the leakage

Use personal protective equipment. Keep people away from and upwind of

area by roping off, etc.

Environmental precautions:

Prevent product from entering drains.

Methods and materials for containment and cleaning

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

Prevention of secondary

hazards:

Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing

devices should be prepared in case of a fire. Use spark-proof tools and

explosion-proof equipment. Since there is a possibility of igniting behind when

removal of a leakage thing is imperfect, it is careful enough.

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 closed system if possible. Use a local exhaust if dust or aerosol will be

generated.

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

Keep away from any possible contact with water, because of violent reaction and

possible flash fire.

Use well-dried equipment. Handle under inert gas.

Don't leave used equipment or rag. This product may ignite if it is left stuck on

combustibles such as paper, rags, etc.

Conditions for safe storage, including any

incompatibilities

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

Store under inert gas. Protect from moisture. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Moisture-sensitive, Air-sensitive

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator,

etc. Use respirators approved under appropriate government standards and follow

local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder

Colour: White - Very pale yellow

Odour: No data available PH: No data available

Melting point/freezing point: 143°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] No data available

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous

May spontaneously ignite or release flammable gases when in contact with water.

reactions:

Conditions to avoid: Moisture

Incompatible materials: Oxidizing agents, Acids, Water

Hazardous decomposition

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Boron oxides

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
Skin corrosion/irritation:
No data available
No data available
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

Ecotoxicity:

Fish:

Crustacea:

Algae:

Persistence / degradability:

Bioaccumulative

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

potential(BCF): Mobility in soil

Log Pow: No data available Soil adsorption (Koc): No data available Henry's Law (PaM ³/mol): No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. Take precautions against ignition. Observe all federal, state and local regulations when disposing of the substance

14. TRANSPORT INFORMATION

Hazards Class: 4.3: Substance which, in contact with water, emit flammable gases.

Subsidiary risk: 8: Corrosive.

UN-No: 3131

Proper shipping name: Water-reactive solid, corrosive, n.o.s.

Packing group:

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

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This SDS 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.

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 "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.