

No. 809, Chuhua Branch Road, Fengxian District, Shanghai

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-06-19

Print Date: 2025-06-19

SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Triethylborane
Product Number : T106572
Brand : aladdin
CAS-No. : 97-94-9(THF)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd

Address : 36 Xinjinqiao Road, Shanghai

Telephone : 400-620-6333
Fax : no data available

1.4 Emergency telephone number

Emergency Phone : 0532-83889090

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (category 2), H225

Spontaneous combustion liquid (category 1), H250

Substances and mixtures that release flammable gases when in contact with water (Class 2), H261

Acute Toxicity, Oral (Category 4), H302

Acute toxicity, inhalation (category 5), H333

Skin corrosion/irritation (Category 1), H314

Serious eye injury/eye irritation (Category 1), H318

Carcinogenicity (Category 2), H351

Specific target organ systemic toxicity (single exposure) (Category 3), respiratory irritation, anesthetic effects, H335, H336

2.2 GHS Label elements, including precautionary statements

Pictogram









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Hazard statement(s) H225	Signal word	no data available	
H250 Catches fire spontaneously if exposed to air H261 In contact with water releases flammable gas H302 Harmful if swallowed H314 Causes severe skin burns and eye damage H333 May be harmful if inhaled H335 May cause respiratory irritation H336 May cause respiratory irritation H336 May cause respiratory irritation H337 Suspected of causing cancer Precautionary statement(s) P201 Obtain special instructions before use. P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking. P202 Do not handle until all safety precautions have been read and understood. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof [electrical/ventilating/lighting//] equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash hands [and] thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P363 Wash contaminated clothing before reuse. P301+P312 [FSWALLOWED: Rinse mouth. Do NOT induce vomiting. P301+P313 [FSWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P331 [FSWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P351+P338 [F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P308+P313 [F SWALLOWED: Rinse mouth. Do NOT induce vomiting. P309+P378 [F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P309+P378 [F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P309+P378 [F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tigh	Hazard statement(s)		
H261 In contact with water releases flammable gas H302 Harmful if swallowed H314 Causes severe skin burns and eye damage H333 May be harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H351 Suspected of causing cancer Precautionary statement(s) P201 Obtain special instructions before use. Keep away from heat, hot surface, sparks, open flames and other ignition sourcesNo smoking. P202 Do not handle until all safety precautions have been read and understood. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof [electrical/ventilating/lighting//] equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash hands [and] thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P363 Wash contaminated clothing before reuse. P364 Wash hands [and] thoroughly after handling. P275 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P363 Wash contaminated clothing before reuse. P364 Wash hands [and] thoroughly after handling. P365 Wash contaminated clothing before reuse. P366 Wash contaminated clothing before reuse. P367 FSWALLOWED: Rinse mouth. Do NOT induce vomiting. P368 Wash contaminated clothing before reuse. P369 FSWALLOWED: Rinse mouth. Do NOT induce vomiting. P369 FSWALLOWED: Rinse fine mediately all contaminated clothing, Rinse SKIN with water [or shower]. P368 FINE YES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing. P369 FSWALLOWED: we medical advice/attention. P370+P378 In case of fire: Use to extinguish. P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep cool. P369 FSWALP334 FINHALED: Remove person t			
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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms : Triethylborane
Formula : no data available
Molecular weight : no data available

Component	Classification	Concentration
Tetrahydrofuran		
CAS-No.: 109-99-9 EC-No.: 203-726-8	易燃液体 类别 2; 急性毒性 类 别 4; 严重眼睛损伤/眼睛刺激 性 类别 2A; 致癌性 类别 2; 特 异性靶器官系统毒性(一次接 触) 类别 3; H225, H302, H319 H351, H335, H336	
Triethylborane		
CAS-No.: 97-94-9 EC-No.: 202-620-9	Spontaneous combustion liquid category 1; Acute toxicity category Don't 3; Skin corrosion/irritation category 1; Serious eye injury/eye irritation category 1; H250, H301, H331, H314, H318	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures



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5.1 Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides Borane/Boron Oxide Flammable Be careful of tempering. Steam is heavier than air, so it can spread over the ground. Do not come into contact with the following substances: water When caught on fire, it may cause the production of hazardous gases or vapors Form explosive mixtures with air at mild temperatures

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity.



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Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, ventilated warehouse. Air sensitive; Moisture sensitive, 2-8 °C, store with argon filling.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties



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9.1 Information on basic physical and chemical properties

a) Appearance form: liquid color: Colorless to light yellow

b) Odour no data available c) Odour Threshold no data available d) pH no data available e) Melting point/freezing point no data available no data available f) Initial boiling point and boiling range g) Flash point no data available no data available h) Evaporation rate no data available i) Flammability (solid, gas)

j) Upper/lower flammability or explosive

limits no data available k) Vapour pressure no data available I) Vapour density no data available m) Relative density no data available n) Water solubility no data available o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available r) Viscosity no data available no data available s) Explosive properties N t) Oxidizing properties N no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Exposed to the air. Heat up Moisture

10.5 Incompatible materials

Oxidant, strong oxidant, oxygen



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10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available

Acute toxicity estimate orally -980.85 mg/kg (calculation method)

Symptoms: Swallowing can cause severe burns to the mouth and throat, and there is a risk of esophageal and gastric perforation.

Acute toxicity estimate inhalation -4 h -26.48 mg/l - vapor (calculation method)

Symptoms: Mucosal irritation, cough, shortness of breath, possible damage:, damage to respiratory tract

Transcutaneous: No data available

Skin corrosion/irritation

Note: The mixture can cause severe burns.

Serious eye damage/eye irritation

Note: The mixture can cause serious eye damage. The danger of blindness!

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

Evidence of carcinogenic effects.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

The mixture can cause respiratory irritation. The mixture may cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Central nervous system suppression, coughing, chest pain, difficulty breathing, and exposure to high concentrations in the air can cause anesthetic effects. To our knowledge, this transformation

The academic, physical, and toxic properties have not been fully studied.

Other hazards cannot be ruled out.

This substance needs to be handled with special caution

Operate in accordance with good industrial hygiene and safety regulations.

SECTION 12: Ecological information



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12.1 Toxicity

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 3399 Packing group: II Class: 4.3(3)

Proper shipping name: Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

ORGANOMETALLIC SUBSTANCE, available available

LIQUID, WATER-REACTIVE, FLAMMABLE (Triethylborane,

Tetrahydrofuran)

Environmental Hazards: no

IMDG

UN number: 3399 Packing group: II EMS-No: no data available

Proper shipping name: ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE (Triethylborane

Tetrahydrofuran)



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

IATA

UN number: 3399 Packing group: II Class: 4.3(3)

Proper shipping name: ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE (Triethylborane

Tetrahydrofuran)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Further information

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