



LTS Research Laboratories, Inc.
Safety Data Sheet
Triethylborane

1. Product and Company Identification

Trade Name: Triethylborane
Chemical Formula: C₆H₁₅B
Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.
Street: 2001 Oaks Pkwy
City: Belmont
State: North Carolina
Zip Code: 28012
Country: USA
Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)
+1-703-527-3887 (International)

2. Hazards Identification

Signal Word:

Danger



Hazard Statements:

H225: Highly flammable liquid and vapor
H250: Catches fire spontaneously if exposed to air
H301: Toxic if swallowed
H332: Harmful if inhaled
H314: Causes severe skin burns and eye damage
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness
H351: Suspected of causing cancer

Precautionary Statements:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P222: Do not allow contact with air
P264: Wash face, hands and any exposed skin thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302 + P334: IF ON SKIN: Immerse in cool water/ wrap in wet bandages
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable
for breathing. Immediately call a POISON CENTER/ doctor
P305 + P351 + P338 + P310: 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/ doctor
P363: Wash contaminated clothing before reuse
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
P405: Store locked up
P422: Store contents under inert gas
P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

| | |
|---------------|-----|
| Health: | N/A |
| Flammability: | N/A |
| Physical: | N/A |

3. Composition

| | |
|-------------------|----------------|
| Chemical Family: | Organometallic |
| Additional Names: | None |

Triethylborane (C₆H₁₅B)

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|-------------|-----------|
| Percentage: | 100 wt% |
| CAS #: | 97-94-9 |
| EC #: | 202-620-9 |

4. First Aid Procedures

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| General Treatment: | Seek medical attention if symptoms persist. |
| Special Treatment: | None |
| Important Symptoms: | N/A |

| | |
|-------------|---|
| Inhalation: | Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention. |
| Ingestion: | Rinse mouth with water. Do not induce vomiting. Seek medical attention. |
| Skin: | Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention. |
| Eyes: | Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention. |

5. Firefighting Measures

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| Flammability: | Flammable |
| Extinguishing Media: | No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. |
| Spec. Fire Fighting Procedure: | Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. |

6. Accidental Release Measures

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| If Material Is Released/Spilled: | Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. |
| Environmental Precautions: | Isolate runoff to prevent environmental pollution. |

7. Handling and Storage

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| Handling Conditions: | Wash thoroughly after handling. |
| Storage Conditions: | Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. |
| Work/Hygienic Maintenance: | Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. |
| Ventilation: | Provide sufficient ventilation to maintain concentration at or below threshold limit. |

8. Exposure Controls and Personal Protection

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|------------------------------|---|
| Permissible Exposure Limits: | N/A |
| Threshold Limit Value: | N/A |
| Special Equipment: | None |
| Respiratory Protection: | Dust Respirator |
| Protective Gloves: | Rubber gloves Check gloves prior to each use |
| Eye Protection: | Safety glasses or goggles |
| Body Protection: | Protective work clothing. Wear close-toed shoes and long sleeves/pants. |

9. Physical and Chemical Characteristics

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|---------------------------|-------------------------|
| Color | N/A |
| Form: | Liquid, Custom parts |
| Odor: | N/A |
| Water Solubility: | N/A |
| Boiling Point: | 95 °C |
| Melting Point: | -93 °C |
| Flash Point: | N/A |
| Autoignition Temperature: | -17 °C |
| Density: | 0.677 g/cm ³ |
| Molecular weight: | 97.99 g/mol |

10. Reactivity

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| Stability: | Stable under recommended storage conditions |
| Reacts With: | Oxidizing agents |
| Incompatible Conditions: | None |
| Hazardous Decomposition Products: | Metal oxide fume |

11. Toxicological Information

Potential Health Effects:

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| Eyes: | May cause irritation |
| Skin: | May cause irritation |
| Ingestion: | May cause irritation |
| Inhalation: | May cause irritation |
| Chronic: | N/A |

| | |
|--------------------------------|-----|
| Signs & Symptoms: | N/A |
| Aggravated Medical Conditions: | N/A |

Median Lethal Dose: LD50 Oral- 235 mg/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

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|--|-----|
| Aquatic Toxicity: | N/A |
| Persistent Bioaccumulation Toxicity: | N/A |
| Very Persistent, Very Bioaccumulative: | N/A |
| Notes: | N/A |

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



| | |
|-----------------------|---|
| Hazard Class: | 4.2 Flammable |
| Packing Group: | I |
| UN Number: | UN2845 |
| Proper Shipping Name: | Pyrophoric liquid, organic, n.o.s. (Triethylborane) |

15. Regulatory Information

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| Sec 302 Extremely Hazardous: | No |
| Sec 304 Reportable Quantities: | N/A |
| Sec 313 Toxic Chemicals: | N/A |

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 09/14/2023