



Safety Data Sheet

Report Date 14-May-15

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1. Identification

Product Name : TRACITE LIQUID BORON 10%
Synonyms : None
Product Use : Amine Borate Solution for Boron Deficiency
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : No skin irritation data noted.
Eye Irritation : Causes serious eye irritation.
Acute Toxicity Oral : LD50 >1,720 mg/kg (rat). Harmful if swallowed.
Acute Toxicity Dermal : LD50 >1,018 mg/kg (rabbit). Harmful in contact with skin.

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 4/4/4; Eye Irritation - 2A; Skin Irritation - 2

Hazard Statement : Harmful if swallowed
Harmful in contact with skin
Causes serious eye irritation
Causes skin irritation
Harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Borates, tetra, sodium salts and decahydrate	Proprietary	65.00
Water		35.00
GUARANTEED ANALYSIS:		
Boron (B):		10.00%

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.



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5. Fire Fighting Measures

- Extinguishing Media** : Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical : Burning can produce carbon dioxide and carbon monoxide.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respiratory protection. Eyewash and emergency shower should be available in work area.
Emergency Procedures : Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product.
Methods and Materials for Containment and Cleanup : Dike and absorb spill with an absorbent such as clay, sand or sawdust. Collect and transfer to suitable containers for proper disposal. Flush spill area with water, then absorb and place in same containers with collected spill material.

7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Keep container tightly closed. Do not allow water to be introduced to the contents of the container. Do not contaminate water sources by cleaning of equipment or disposal of spray waste.
Conditions for Safe Storage : Store in original container only. Store in a cool place, out of direct sunlight. Do not freeze.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Borates, tetra, sodium salts, decahydrate - TLV 1 mg/m³ (respirable solid)
Appropriate Engineering Controls : Local exhaust is sufficient.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respiratory protection. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear, light amber liquid; slight amine odor.
Flash Point, °F : Non-combustible
Boiling Point, °F : >100 Degrees C.
Melting Point(Freezing point), °C : No information found
Vapor Pressure, mm Hg @ 20 °C : Not determined
Vapor Density : Not determined
Solubility in Water : 99% soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.320-1.340
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : No information found
pH : 7.4 to 8.0
Flammable Limits (approximate volume % in air) : No information found



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Auto-ignition Temperature : No information found
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found.
Chemical Stability : Stable
Hazardous Decomposition : Burning can produce carbon dioxide and carbon monoxide.
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid acids
Incompatible Materials : Product may gel in the presence of acid materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >1,720 mg/kg (rat). Harmful if swallowed.
Acute Toxicity (Dermal LD50) : >1,018 mg/kg (rabbit). Harmful in contact with skin.
Acute Toxicity Inhalation LC50 : LC50 11 mg/L/4 hour (vapors). Harmful if inhaled.
Likely Routes of Exposure : Ingestion, inhalation, skin, eyes.
Skin Irritation : No skin irritation data noted.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : Not listed as a sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No information found
Other Hazards : Animals that ingested high doses of borates over long periods of time have shown adverse developmental and reproductive effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction.

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : Over application of products containing Boron, or use on crops not listed on the label or in a manner inconsistent with local agricultural authority recommendations may result in serious crop injury.

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by D.O.T.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found



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Special Precautions for Transportation : No information found

Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 14-May-2015