Safety Data Sheet

1. Identification

Product Name : TRACITE LF ZINC 10% 8-0-0
Synonyms : None
Product Use : Chelated micronutrient - Zinc
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 : Causes skin irritation
Eye Irritation : Causes serious eye irritation
Acute Toxicity Oral : Harmful if swallowed.
Acute Toxicity Dermal : No effects currently known.

Hazard Categories : Oral/Inhalation Toxicity - 4/5; Dermal Toxicity - not classified; Eye/Skin Irritation - 2A/2

Hazard Statement : Harmful if swallowed
Causes serious eye irritation
Causes skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Plant nutrients derived from ammonium hydroxide and zinc sulfate. GUARANTEED ANALYSIS: Total Nitrogen (N): 8.00% Sulfur (S): 5.00% Zinc (Zn): 10.00% The chelating/complexing agents are citric acid and EDTA.	Proprietary	100.00

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.

5. Fire Fighting Measures

Extinguishing Media : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.

Specific Hazards Arising from the Chemical : May produce toxic and irritating fumes under fire conditions.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

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. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

Emergency Procedures : Do not contaminate water supplies, lakes, streams or ponds with spilled material.

Methods and Materials for Containment and Cleanup : Collect and reuse as intended, if uncontaminated. If contaminated, absorb with an inert material, such as clay, sand or sawdust, collect and place in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.

Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

TLV/PEL : No TLV or PEL established for mixture.

Appropriate Engineering Controls : Local exhaust sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Clear colorless to dark brown liquid,ammonia odor.

Flash Point, ^{0}F : Non-combustible

Boiling Point, ^{0}F : >100 Degrees C.

Melting Point(Freezing point), ^{0}C : <25 Degrees F.

Vapor Pressure, mm Hg @ 20 ^{0}C : Not determined

Vapor Density : Not determined

Solubility in Water : Soluble

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 ^{0}C : 1.240-1.260

Evaporation Rate(Butyl Acetate = 1) : Not determined

Octanol/Water Partition Coefficient : No information found

pH	: 11.0 to 11.4
Flammable Limits (approximate volume % in air)	: Not applicable
Auto-ignition Temperature	: Not applicable
Decomposition temperature	: No information found

10. Stability and Reactivity

Reactivity	: No information found
Chemical Stability	: Stable
Hazardous Decomposition Products	: May emit ammonia gas and sulfur oxides under fire conditions.
Hazardous Polymerization	: Will not occur
Conditions to Avoid	: Do not mix with acids or silver compounds.
Incompatible Materials	: This product may react vigorously with acidic materials. Corrosive to galvanized steel and aluminum.

11. Toxicological Information

Acute Toxicity (Oral LD50)	: No LD50 available. Harmful if swallowed.
Acute Toxicity (Dermal LD50)	: No LD50 available. No effects currently known.
Acute Toxicity Inhalation LC50	: No LC50 available. May be harmful if inhaled.
Likely Routes of Exposure	: Skin, eyes, ingestion, inhalation
Skin Irritation	: Causes skin irritation.
Eye Irritation	: Causes serious eye irritation.
Skin Sensitization	: Not listed as a sensitizer.
Carcinogenic	: None currently known.
Chronic Effects	: None currently known.
Other Hazards	: None currently known.

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	: No information found

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 DOT in containers <150 gallons. See Transportation Note above.
Transport Hazard Class	: None
UN Identification Number	: None
Packaging Group	: None
Environmental Hazards	: No information found

Transport in Bulk : Reportable quantity (ammonium hydroxide) >/= 150 gallons. Ship as RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Ammonium Hydroxide), 9, PG III "ERG # 171"

Special Precautions for Transportation : Regulated if shipped by air (IATA) in any size package, as: UN1760, Corrosive Liquid, Basic, Inorganic, n.o.s., (Ammonium Hydroxide, Zinc Sulfate), 8, PG III

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

15. Regulatory Information

National Fire Protection Association Rating :

Health:	2	Fire: 1	Reactivity: 1

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 : 16-May-2015