Safety Data Sheet

1. Identification

Product Name : TRACITE ZINC 10% (LIGNIN)(COMPLEXED)
Synonyms : None
Product Use : Complexed 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 : Danger
Skin Irritation : Causes mild skin irritation
Eye Irritation : Causes serious eye damage
Acute Toxicity Oral : May be harmful if swallowed
Acute Toxicity Dermal : May be harmful in contact with skin

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye/Skin Irritation - 1/3

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye damage
Causes mild skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from Zinc Sulfate and Lignin Sulfonate.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Sulfur (S):		4.50%
4.50% Combined Sulfur (S)		
Zinc (Zn):		10.00%
10.00% Water Soluble Zinc (Zn)		
Note: The complexing agent is lignin sulfonate.		

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 adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media : Use water fog or spray, dry chemical, foam or carbon dioxide extinguishing agents.

Specific Hazards Arising from the Chemical : Sulfur dioxide, carbon dioxide and carbon monoxide under fire conditions.

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 work area.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator with ammonia cartridge if needed. 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 : Contain spilled product and reuse, if uncontaminated. If contaminated, absorb with an inert material. 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 is sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator with ammonia cartridge if needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Clear dark brown liquid. Phenolic odor.

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

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

Melting Point(Freezing point), ^{0}C : <20 Degrees C.

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 : 1.320-1.350

Evaporation Rate(Butyl Acetate = 1) : Not determined

Octanol/Water Partition Coefficient : No information found

pH	: 1.0 to 2.0
Flammable Limits (approximate volume % in air)	: Not determined
Auto-ignition Temperature	: Not determined
Decomposition temperature	: No information found

10. Stability and Reactivity

Reactivity	: No information found
Chemical Stability	: Stable
Hazardous Decomposition Products	: Sulfur dioxide, carbon dioxide and carbon monoxide under fire conditions.
Hazardous Polymerization	: Will not occur
Conditions to Avoid	: None currently known.
Incompatible Materials	: Product may react vigorously with alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50)	: No LD50 available. Ingestion results in vomiting and abdominal cramps.
Acute Toxicity (Dermal LD50)	: No LD50 available. No hazard currently known.
Acute Toxicity Inhalation LC50	: No LC50 available. May be harmful if inhaled.
Likely Routes of Exposure	: Skin, eye, inhalation, ingestion
Skin Irritation	: Causes mild skin irritation.
Eye Irritation	: Causes serious eye damage.
Skin Sensitization	: Not a skin sensitizer.
Carcinogenic	: Not listed by IARC, NTP or OSHA.
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 packages <318 gallons.
Transport Hazard Class	: None
UN Identification Number	: None
Packaging Group	: None
Environmental Hazards	: No information found

Transport in Bulk : Regulated by DOT in single packages >318.8 gallons: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Zinc Sulfate), 9, PG III "ERG #171"

Special Precautions for Transportation : Reportable quantity (zinc sulfate) = 1,000 lbs.

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:	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 : 10-June-2016