Safety Data Sheet

1. Identification

Product Name : TRACITE N ZINC 7-0-0
Synonyms : None
Product Use : Foliar 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 severe skin burns.
Eye Irritation : Causes severe 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-1/1C; Oxidizer-3

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye damage
Causes severe skin burns and eye damage
May be harmful if inhaled
May intensify fire; oxidizer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from zinc nitrate.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		7.00%
7.00% Nitrate Nitrogen		
Zinc (Zn):		17.00%
17.00% Water Soluble Zinc (Zn)		

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 : Use extinguishing media suitable for underlying cause of fire.

Specific Hazards Arising from the Chemical : Under fire conditions, may behave as an oxidizer. In contact with oxidizable substances, ignition, violent combustion or explosion could occur.

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, chemical-resistant gloves, impervious apron and footwear. No respiratory protection normally 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. If uncontaminated, collect and reuse as intended.

7. Handling and Storage

Precautions for Safe Handling : Keep locked up and out of reach of children. Product may react vigorously with alkaline materials. Do not contaminate water sources by cleaning of equipment or disposal of spray waste.

Conditions for Safe Storage : Store in a secure, dry, well-ventilated area. Store in original container only. Do not store near heat or open flame. Segregate from oxidizers and other incompatible materials.

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, chemical-resistant gloves, impervious apron and footwear. No respiratory protection normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Clear, colorless liquid with slight burning odor.

Flash Point, ^{0}F : Not flammable. Oxidizer.

Boiling Point, ^{0}F : 210-212 Degrees F.

Melting Point(Freezing point), ^{0}C : <35 Degrees F.

Vapor Pressure, mm Hg @ 20 ^{0}C : 17.5 mmHg

Vapor Density : No information found

Solubility in Water : Soluble

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 ^{0}C	: 1.594-1.614
Evaporation Rate(Butyl Acetate = 1)	: No information found
Octanol/Water Partition Coefficient	: No information found
pH	: 1.50 to 1.80 (corrosive)
Flammable Limits (approximate volume % in air)	: No information found
Auto-ignition Temperature	: No information found
Decomposition temperature	: No information found

10. Stability and Reactivity

Reactivity	: May react vigorously with alkaline materials.
Chemical Stability	: Stable
Hazardous Decomposition Products	: Produces nitrogen oxides under fire conditions.
Hazardous Polymerization	: Will not occur
Conditions to Avoid	: None currently known.
Incompatible Materials	: Avoid contact with oxidizable materials and alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50)	: No LD50 available. Ingestion causes corrosive damage to the digestive tract.
Acute Toxicity (Dermal LD50)	: No LD50 available.
Acute Toxicity Inhalation LC50	: No LC50 available. Inhalation causes irritation to the nose and throat.
Likely Routes of Exposure	: Eyes, skin, ingestion
Skin Irritation	: Causes severe skin burns.
Eye Irritation	: Causes serious eye damage.
Skin Sensitization	: Not listed as a sensitizer.
Carcinogenic	: Not listed by IARC, NTP or OSHA.
Chronic Effects	: None currently known.
Other Hazards	: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

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	: Zinc Nitrate Solution

Transport Hazard Class : Oxidizer (5.1)
UN Identification Number : UN1514
Packaging Group : PG II
Environmental Hazards : No information found
Transport in Bulk : If shipped in single package >/= 149 gallons, ship as RQ, UN1514, Zinc Nitrate Solution, 5.1, PG II "ERG # 140"
Special Precautions for Transportation : ERG # 140
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: Y
Reactive: N

16. Other Information

Data of Preparation/Revision : 04-August-2016