Safety Data Sheet

1. Identification

Product Name : TRACITE 10-12-0 WITH 2% ZINC
Synonyms : None
Product Use : Soluble Fertilizer Concentrate with 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 burns
Eye Irritation : Causes serious eye damage
Acute Toxicity Oral : LD50 1,530 mg/kg (rabbit) for phosphoric acid component.
Acute Toxicity Dermal : LD50 2,740 mg/kg (rabbit) for phosphoric acid

Hazard Categories : Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-1/1B

Hazard Statement : Harmful if swallowed
May be harmful in contact with skin
Causes severe skin burns and eye damage
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from Urea (CAS No 57-13-6); Phosphoric Acid (CAS No 7664-38-2), and Zinc Sulfate (CAS No 7733-02-0). GUARANTEED ANALYSIS: Total Nitrogen (N): 10.00% Available Phosphate (P2O5): 12.00% Zinc (Zn): 2.00%	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 phosphorus oxides and other toxic 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 : Contain spill to prevent spreading to soil, waterways, drains or sewers.

Methods and Materials for Containment and Cleanup : If uncontaminated, recover and reuse product. If contaminated, carefully add lime or sodium carbonate to neutralize product. Then, cover with inert absorbent, shovel or scoop up 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 : Phosphoric acid - 1 mg/m3 (PEL), 3 mg/m3 (TLV). Zinc Sulfate - no TLV or PEL established.

Appropriate Engineering Controls : Local exhaust should be 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 liquid.

Flash Point, ^{0}F : Not flammable

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

Melting Point(Freezing point), ^{0}C : <34 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 : 1.215-1.235

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

10. Stability and Reactivity

Reactivity	: No information found
Chemical Stability	: Stable
Hazardous Decomposition Products	: May produce phosphorus oxides and other toxic fumes under fire conditions.
Hazardous Polymerization	: Will not occur
Conditions to Avoid	: None noted
Incompatible Materials	: Product may react vigorously with alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50)	: 1,530 mg/kg (rabbit) for phosphoric acid. Harmful if swallowed.
Acute Toxicity (Dermal LD50)	: 2,740 mg/kg (rabbit) for phosphoric acid. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50	: No LC50 noted. Inhalation results in severe irritation to nose/throat. May be harmful if inhaled.
Likely Routes of Exposure	: Skin, eyes, inhalation
Skin Irritation	: Causes severe skin burns.
Eye Irritation	: Causes serious eye damage.
Skin Sensitization	: Not listed as 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	: Corrosive Liquid, Acidic, Inorganic, n.o.s., (Phosphoric Acid)
Transport Hazard Class	: Corrosive (8)
UN Identification Number	: UN3264
Packaging Group	: PG III

Environmental Hazards : No information found
Transport in Bulk : If shipped in single container >1,724 gallons, ship as: RQ, Corrosive Liquid, Acidic, Inorganic, n.o.s., (Phosphoric Acid, Zinc Sulfate), 8, PG III "ERG # 154"
Special Precautions for Transportation : ERG # 154
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:	Y
Sudden Release of Pressure:	N
Fire:	N
Reactive:	N

16. Other Information

Data of Preparation/Revision : 28-May-2015