



Safety Data Sheet

Report Date 24-Jul-16

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1. Identification

Product Name : TRACITE HEP 45 4-0-0
Synonyms : None
Product Use : Chelated inorganic metal salts
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 serious eye damage
Acute Toxicity Oral : No LD50 data available
Acute Toxicity Dermal : No LD50 data available

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-1/1C;
STOT-Single-3; Oxidizing Liquid-3

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of chelated metal salts derived from iron glucoheptonate, manganese nitrate and zinc nitrate. The chelating agent is glucoheptonate.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		4.00%
Iron (Fe):		0.50%
Manganese (Mn):		4.00%
Zinc (Zn):		4.00%

4. First Aid Measures

Eye : Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eyes. Seek medical attention if irritation persists.



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Skin : Take off all contaminated clothing. Rinse skin with soap and water for at least 15 minutes.

Inhalation : Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek prompt medical attention.

Ingestion : Do not induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person. Seek medical attention.

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 water. Do not use dry chemicals or foams. Carbon dioxide or halon may provide limited control.

Specific Hazards Arising from the Chemical : Under fire conditions, this product behaves as an oxidizer. Contact with oxidizable substances may result in ignition.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Contain firefighting water to prevent environmental contamination.

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 allow spilled product to enter soil, waterways, drains or sewers.

Methods and Materials for Containment and Cleanup : Contain spilled product. If uncontaminated, recover and reuse product. If contaminated, cover with absorbent, then collect and place in plastic salvage container for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Containers should be kept closed and properly labeled. Liquid is an oxidizer and may cause fire in contact with combustibles. Keep away from fire.

Conditions for Safe Storage : Store in a well-ventilated cool place.

8. Exposure Controls / Personal Protection

TLV/PEL : Manganese Nitrate: PEL=5 mg/m³; TLV=0.2 mg/m³

Appropriate Engineering Controls : General and/or 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 brown liquid with phenolic odor.

Flash Point, °F : Not flammable

Boiling Point, °F : >100 Degrees C.

Melting Point(Freezing point), °C : <0 Degrees C.

Vapor Pressure, mm Hg @ 20 °C : Not established

Vapor Density : Not established



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Solubility in Water : Soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.258-1.358
Evaporation Rate(Butyl Acetate = 1) : Not established
Octanol/Water Partition Coefficient : No information found
pH : <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 : May act as an oxidizer.
Chemical Stability : Stable
Hazardous Decomposition Products : May produce oxides of carbon and nitrogen under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known.
Incompatible Materials : Avoid products that react with acidic or oxidizing materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 data found. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 data found. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 data found. May be harmful if inhaled.
Likely Routes of Exposure : Eyes, skin, ingestion, inhalation.
Skin Irritation : Causes severe skin burns and eye damage.
Eye Irritation : Causes serious eye damage.
Skin Sensitization : Not a skin sensitizer.
Carcinogenic : Not listed.
Chronic Effects : No information found
Other Hazards : Specific Target Organ Toxicity-Single Exposure: May cause respiratory irritation.

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. (D002 for corrosivity)

14. Transport Information



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UN Proper Shipping Name : Not regulated by DOT in accordance with 49 CFR Part 172.102, Special Provision 58.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : If shipped by air (IATA) or water (IMDG), ship as: UN3093, Corrosive Liquid, Oxidizing, n.o.s., (Manganese Nitrate Solution), 8, (5.1), PG II
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: 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: Y
Reactive: N

16. Other Information

Data of Preparation/Revision : 24-July-2016