

Report Date 02-Jun-15

Page 1 of 5

1. Identification

Product Name: TRACITE MANGANESE 5% (LIGNIN)(COMPLEXED)

Synonyms: None

Product Use : Complexed Micronutrient - Manganese

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: May cause skin irritation

Eye Irritation: Based on pH, causes serious eye damage.

Acute Toxicity Oral: LD50 is 2,150 mg/kg (rat) for manganese sulfate solution.

Acute Toxicity Dermal : No data available.

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

STOT Repeated Exposure-2

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

May cause damage to organs (central nervous system) through prolonged

or repeated exposure (via inhalation)

3. Composition / Information on Ingredients

Component

CAS Number
Proprietary

Weight %

Manganese Sulfate and lignin sulfonate. The complexing agent is lignin sulfonate.

Blend of plant nutrients derived from

GUARANTEED ANALYSIS:

Manganese (Mn): 5.00%

Sulfur (S): 3.25%

100.00



Report 02-Jun-15 Date

Page 2 of 5

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.

Call a poison control center or doctor immediately for treatment advice. Rinse Ingestion :

mouth with water. Do not induce vomiting. Do not give anything by mouth if

unconscious.

Attention and Special Treatment

Needed

Indication of Immediate Medical : 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

Chemical

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

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective equipment. 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, ponds, drains or sewers.

Methods and Materials for **Containment and Cleanup**

: If uncontaminated, recover spilled liquid for reuse. If contaminated, cover spilled product with inert absorbent, such as clay or sand. Sweep or scoop up absorbent

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.



Report 02-Jun-15 Date

Page 3 of 5

8. Exposure Controls / Personal Protection

TLV/PEL: TLV - 0.2 mg/m3 (Manganese Sulfate/Manganese compounds as Mn). PEL - 5

mg/m3 (Manganese Sulfate/Manganese Compounds as Mn).

Appropriate Engineering Controls : Local exhaust is 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; phenolic odor.

Flash Point, oF : Non-combustible Boiling Point, oF : >212 Degrees F.

Melting Point(Freezing point), oC : <30 Degrees F. Vapor Pressure, mm Hg @ 20 oC : Not determined

Vapor Density : Not determined

Solubility in Water : Soluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 oC : 1.155-1.180

Evaporation Rate(Butyl Acetate = : Not determined

Octanol/Water Partition : No information found

Coefficient

pH: <2.5

Flammable Limits (approximate : No information found

volume % in air)

Auto-ignition Temperature : Not applicable

Decomposition temperature: No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition: May emit sulfur dioxide under fire conditions.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known.

Incompatible Materials: Avoid contact with strong acids and strong alkalies.



Report 02-Jun-15 Date

Page 4 of 5

11. Toxicological Information

Acute Toxicity (Oral LD50) : 2,150 mg/kg (mangnese sulfate solution). May be harmful if swallowed.

Acute Toxicity (Dermal LD50) : No LD50 available. May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : No LC50 available. Prolonged or repeated exposure may damage organs (central

nervous system).

Likely Routes of Exposure: Skin, eyes, inhalation

Skin Irritation: Causes mild skin irritation. Eye Irritation : Causes serious eye damage. Skin Sensitization : Not listed as a sensitizer. Carcinogenic: Not listed as a carcinogen.

Chronic Effects: May cause damage to organs (central nervous system) through prolonged or

repeated exposure (via inhalation).

Other Hazards: No information found.

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 non-bulk packages. Regulated if shipped by air (IATA) or

water (IMDG).

Transport Hazard Class: None UN Identification Number : None Packaging Group: None

Environmental Hazards : No information found

Transport in Bulk : If shipped by ground (DOT) in bulk, or shipped in any size package by air (IATA)

or water (IMDG), ship as: UN1760, Corrosive Liquid, n.o.s., (Manganese Sulfate),

8. PG III "ERG # 154"

Transportation

Special Precautions for : No information found

Freight Classification: Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item

68140, Sub 6, Class 70)



Report Date **02-Jun-15**

Page 5 of 5

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 N

Pressure: Fire: N Reactive: N

16. Other Information

Data of Preparation/Revision : 02-June-2015