

Material Safety Data Sheet

Effective Date: 05-NOV-2010

Product: TRACITE MANGANESE 5% (CITRIC)

I. IDENTIFICATION

Chemical Name: Formulated mixture
Chemical Family: Inorganic Metal Salts
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: 7785-87-7
EPA Number: None required

II. PHYSICAL DATA

Boiling Point: >100 Degrees C.
Freezing Point: <25 Degrees F.
Spec Gravity: 1.160-1.180 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: 99%
Volatiles: <0.5%
Evaporation: Not determined
Melting Point: Not applicable
Appearance: Clear, pinkish liquid.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Manganese Sulfate	07785-87-7	16.13	N/E	Skin & eye irritant
Water and Citric Acid (as a chelating agent)		83.87	N/E	Skin & eye irritant

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible
Autoignition Temp: Not applicable
Flammable Limit: Not applicable
Extinguishing Media: Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.
Fire and Expl Hazard: Product may emit toxic fumes under fire conditions.

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V. HEALTH HAZARD

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Ingestion results in vomiting and abdominal cramps.
Skin Absorption: None currently known.
Inhalation: Inhalation of spray mists may cause nose and throat irritation.
Skin contact: Irritation may occur with direct skin contact.
Eye Contact: Moderate irritation to the eyes may occur with contact.
Chronic Effects: None currently known.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: If conscious, give milk or water to drink, then induce vomiting. Obtain medical attention.
Skin: Wash skin thoroughly with soap and water. Obtain medical attention if irritation develops.
Inhalation: Move to fresh air. Obtain medical attention if irritation develops.
Eyes: Flush eyes with water for at least 15 minutes, holding the eyelids open. Obtain medical attention.
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient. Ingestion may cause corrosive damage to the digestive tract, due to the low pH of this mixture.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: None currently known.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.

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Incompatibility material: Product may react vigorously with alkaline materials due to its acidic nature.

Hazardous Combustion: May emit sulfur dioxide under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain spilled product. If uncontaminated, collect and reuse as intended. If contaminated, absorb with an inert material, such as clay or sand. Collect absorbent and place in suitable containers for proper disposal. Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product.

Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal use conditions.

Ventilation: Local exhaust sufficient.

Gloves: Impervious gloves.

Eyes: Splashproof goggles.

Other: Eyewash station, emergency shower, impervious apron and footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams or pond.

Other precaution: If disposed of, may be classified as a D002 corrosive liquid due to low pH.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT in less than bulk packages.

Hazard Class: None

Identification No: None

Labels Required: None required

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

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Placarding: None
Freight Class: Compound, Fertilizer (Manufactured
Fertilizer), Liquid, NOIBN
Chemical Name Equivalent R.Q.

Not applicable Not applicable

TRANSPORTATION NOTE:

If shipped by Air or shipped in bulk quantities, ship as:
UN1760, Corrosive Liquid, n.o.s. (Manganese Sulfate, Citric Acid), 8, PG
III "ERG # 154"

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:

(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2 Fire: 0 Reactivity: 0
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

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