

SAFETY DATA SHEET

Big Bend Agri-Services, Inc.



Version 1.0
Print Date 10/5/16

1. Identification

Product Name: Supra-Starter Liquid Manganese
Synonyms: None
Product Use: Inorganic Fertilizer
Manufacturer/Supplier: Big Bend Agri-Services, Inc.
Address: 328 1st Ave NE Cairo, GA 39828
Phone: 800.321.7709
Emergency contact: ChemTel 800.255.3924

2. Hazard Identification

Signal Word: Warning

Skin Irritation: Causes skin irritation.

Eye Irritation: Causes serious eye irritation.

Acute Toxicity Oral: Harmful if swallowed.

Acute Toxicity Dermal: No danger of skin absorption.

Hazard Categories: Oral/Dermal/Inhalation Toxicity - 4/5/5; Eye Irritation – 2A; Skin Irritation - 2

Hazard Statement: Harmful if swallowed.
May be harmful in contact with skin.
Causes serious eye irritation.
Causes skin irritation.
May be harmful if inhaled.
May cause damage to organs (central nervous system) through prolonged use or repeated exposure (via inhalation).



3. Composition / Information on Ingredients

Component: Blend of plant nutrients derived from Manganese Citrate and Manganese Sulfate

GUARANTEED ANALYSIS:

Total Sulfur (S) 3.00%
3.00% Combined Sulfur (S)
Total Manganese (Mn) 5.00%
5.00% Chelated Manganese (Mn)
5.00% Water Soluble Manganese (Mn)

CAS Number: Proprietary
Weight %: 100.00

4. First Aid Measures

Eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation develops.

Inhalation: Move to fresh air. Obtain medical attention if irritation develops.

Ingestion: Drink large volumes of water. Call a physician or poison control center.

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 and the clinical condition of the patient.

5. Fire Fighting Measures

Extinguishing Media: Non-combustible product. Use extinguishing media for underlying cause of fire.

Specific Hazards Arising from the Chemical: Product may release toxic fumes under fire conditions.

Special Fire Fight Proc: Wear positive-pressure self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

6. Accidental Release Measures

Personal Precautions: Avoid contact with skin and eyes. Keep unnecessary personnel out of area.

Protective Equipment: NIOSH-approved respirator for ammonia gas if mist or spray is present, impervious gloves, splash-proof goggles, impervious apron and footwear. Safety shower and eyewash should be available.

Emergency Procedures: Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product.

Methods and Materials for Containment and Cleanup: Contain spill. If uncontaminated, collect and reuse product. If contaminated, absorb on sand or clay and place in a recovery drum for proper disposal.

7. Handling and Storage

Precautions for Safe Handling: Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment wash water or spray waste. Avoid containers, piping or fittings made of copper-containing alloys or galvanized metals.

Conditions for Safe Storage: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Use within 6 months of purchase date. Store unblended in original containers.

8. Exposure Controls / Personal Protection

TLV/PEL: Not established

Appropriate Engineering Controls: Local exhaust should be sufficient.

Personal Protective Equipment: Impervious gloves, splash-proof goggles, impervious apron and footwear. Safety shower and eyewash should be available.

9. Physical and Chemical Properties

Odor/Appearance: Dark brown liquid with ammonia odor.

Flash Point, °F: Not flammable

Boiling Point, °F: Not applicable

Melting Point (Freezing point), °C: <32 Degrees F

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

Vapor Density: Not applicable

Solubility in Water: Soluble

Molecular Formula: Not applicable, formulated mixture.

Specific Gravity: 1.20-1.3

pH: 7-8

Flammable Limits (approximate volume % in air): Not applicable

Auto-ignition Temperature: Not applicable

Decomposition temperature: No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition Products: Product may release ammonia, sulfur, carbon and metal oxides under fire conditions.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid high temperatures above 105 Degrees F., or greater acid contamination.

Incompatible Materials: Avoid mixing or intimate contact with strongly acidic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50): Harmful if swallowed.

Acute Toxicity (Dermal LD50): May be harmful in contact with skin.

Acute Toxicity Inhalation LC50: May be harmful if inhaled.

Likely Routes of Exposure: Skin, eyes, inhalation

Skin Irritation: Prolonged or repeated contact may irritate slightly.

Eye Irritation: Liquid contact may irritate slightly. If mist is formed, it may also irritate slightly.

Skin Sensitization: Not listed as a skin sensitizer.

Carcinogenic: Not listed by IARC, NTP or OSHA.

Chronic Effects: May cause damage to organs (CNS) through prolonged or repeated exposure.

Other Hazards: None currently known.

12. Ecological Information

Eco-toxicity: No information found

Persistence and Degradability: No information found

Bio-accumulative Potential: No information found

Mobility in Soil: No information found

Other Adverse Effects: May promote eutrophication in waterways if large spills occur.

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. Product may be recovered and applied to the soil as a fertilizer source on crop land using professional best management practices.

14. Transport Information

UN Proper Shipping Name: Not regulated by DOT, IATA or IMDG.

Transport Hazard Class: Not designated as a dangerous substance by DOT.

UN Identification Number: None

Packaging Group: None

Environmental Hazards: No information found

Transport in Bulk: No information found

Special Precautions for Transportation: No information found

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): N

Immediate (Acute) Health: Y

Delayed (Chronic) Health: N

Sudden Release of Pressure: N

Fire: N

Reactive: N

16. Other Information

Date of Preparation/Revision: October 5, 2016

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End of SDS