



Safety Data Sheet

Report Date 18-Apr-15

Page 1 of 4

1. Identification

Product Name : KICKSTAND MANGANESE 4% X-TRA
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 : Warning (no symbol)
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Acute Toxicity Oral : LD50 >2,000 mg/kg, based on similar products. May be harmful if swallowed.
Acute Toxicity Dermal : No data available. May be harmful in contact with skin.
Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye Irritation - 2B; Skin Irritation - 3
Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from manganese amino acid complex, manganese humate and manganese EDTA. GUARANTEED ANALYSIS: Manganese (Mn): 4.00%	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 : Treat symptomatically.

5. Fire Fighting Measures



Safety Data Sheet

Report Date 18-Apr-15

Page 2 of 4

- Extinguishing Media** : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : May generate toxic and irritating fumes under fire conditions.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

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. Use NIOSH-approved respirator if needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Safely stop spill at its source. Do not allow spreading to soil or to water, drains or sewers.
- Methods and Materials for Containment and Cleanup** : Use inert absorbent to collect spilled material.

7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Keep container tightly closed. Do not contaminate water, food or feed by storage or disposal.
- Conditions for Safe Storage** : Store in original container only. Do not allow water to be introduced into the contents of the container. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

- TLV/PEL** :
- Appropriate Engineering Controls** :
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respirator if needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear yellow to amber liquid, no appreciable odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : >100 Degrees F.
- Melting Point(Freezing point), °C** : <32 Degrees F.
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.175-1.195
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : 6.0-9.0
- Flammable Limits (approximate volume % in air)** : Not applicable
- Auto-ignition Temperature** : Not applicable
- Decomposition temperature** : No information found



Safety Data Sheet

Report Date 18-Apr-15

Page 3 of 4

10. Stability and Reactivity

- Reactivity** : No information found.
- Chemical Stability** : Stable
- Hazardous Decomposition** : May produce oxides of carbon under fire conditions.
- Products**
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : None currently known
- Incompatible Materials** : Avoid contact with strong oxidizing agents and strong alkaline materials.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >2,000 mg/kg for similar product. May be harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : No data available. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : No data available. May be harmful if inhaled.
- Likely Routes of Exposure** : Eyes, skin, ingestion
- Skin Irritation** : Not irritating to rabbit skin in laboratory tests. Causes mild skin irritation.
- Eye Irritation** : Causes eye irritation.
- Skin Sensitization** : No known effects for the mixture.
- Carcinogenic** : Not listed by IARC, NTP or OSHA.
- Chronic Effects** : No known effects for the mixture.
- Other Hazards** : CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

12. Ecological Information

- Ecotoxicity** : No data available on the mixture.
- Persistence and Degradability** : This product is not expected to be readily biodegradable.
- Bioaccumulative Potential** : No data available on the mixture.
- Mobility in Soil** : No data available on the mixture.
- Other Adverse Effects** : No data available on the mixture.

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.
- 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** : None
- Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)



Safety Data Sheet

Report Date 18-Apr-15

Page 4 of 4

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 1 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 Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 18-April-2015