



Safety Data Sheet

MSDS NO.
Revision Date:07-2016

•9530 Hageman Road B 112 • Bakersfield • California 93312 • USA • (661) 832-7777•
www.agrosolutions.com

Product Name: **CROP NUTRITION MANGANESE 5.6% LIQUID
AMINO ACID FOLIAR FERTILIZER**

1. IDENTIFICATION

Product Description Mineral Foliar Supplement
CAS No. This product is a mixture – There is no specific CAS Number
Manufacturer's Name AgroScience Solutions LLC
Address 9530 Hageman Road B 112 Bakersfield, California USA
Telephone Number for Information (661) 832 - 7777
Emergency Telephone Number CHEMTREC (800) 424 - 9300

2. HAZARD(S) IDENTIFICATION

Classification (GHS-US) Not classified
Label Elements (GHS-US) No labeling required
Other Hazards There are no specific hazards known to be associated with this product, although precautions should be taken to avoid unnecessary contact with skin, eyes, and mouth.
Unknown Acute Toxicity No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	Product Identifier	%	Classification (GHS-US)
Not Applicable			

4. FIRST AID MEASURES

Eyes Irrigate thoroughly with water for at least 10 minutes. If any discomfort persists obtain medical attention.
Skin Wash skin thoroughly with water. Remove contaminated clothing and wash before reuse. In severe cases obtain medical attention.
Ingestion Wash out mouth thoroughly with water. Obtain medical attention.
Inhalation Remove from exposure, rest and keep warm. In severe cases obtain medical attention.

5. FIRE FIGHTING MEASURES

General Hazard No specific hazard
Extinguishing Media Water spray, foam, dry chemical, or carbon dioxide
Special firefighting procedures Wear positive pressure, self-contained breathing apparatus and google. Contain any liquid run-off.

6. ACCIDENTAL RELEASE MEASURES

Small Spill Wear appropriate protective clothing. Mop up spillage and wash affected area.
Large Spill Mop up material and place in a disposal container. Dispose of in a manner according to local regulations.
Method on containment Material, which cannot be used at the site, should be disposed of following all applicable Federal, State and local regulations.

7. HANDLING AND STORAGE

Handling Wear protective clothing and wash areas of contact after handling.
Storage Store in a cool, dry place in original container. Do not leave product in open containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes and Face Wear appropriate clothing and eye protection.
Respiratory Fine dust respirator to standard R95 or equivalent.
Work Hygienic Practices Good general ventilation should be sufficient to control airborne levels.

Protective Clothing



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Brown
Odor	Sweet Proteinaceous
Odor Threshold	No data available
pH	4.0 - 6.01 (1% in distilled water)
Melting Point/Freezing Point	Not determined
Boiling Point	Not determined
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability	Not classified as a flammability hazard
Upper/lower Flammability	No data available
Vapor Pressure	Not determined
Vapor Density	1.10 – 1.19 g/mL
Relative Density	Not applicable
Solubility	Water Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	None known
Stability	Stable
Hazardous Reactions	None known
Conditions to avoid	None known

11. TOXICOLOGICAL INFORMATION

Target Organs	None known
Carcinogenicity	IARC: None of the materials used in this product contain chemicals on the IARC list, NTP: None of the materials used in this product contain chemicals on the NTP list.

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

General Comments	Quantitative data on the ecological effects of this product are not available. Care should be taken to avoid entry of any chemical product into natural watercourses. No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.
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13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal Considerations	Chemical residues are classified as special waste and as such are covered by regulations which vary in accordance to location. Contact your local waste disposal authority for advice or pass to a chemical disposal company.
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14. TRANSPORT INFORMATION (NON-MANDATORY)

Special Shipping Notes	Not applicable – non-hazardous
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15. REGULATORY INFORMATION (NON-MANDATORY)

General Comments	Not applicable – non-toxic and non-hazardous
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16. OTHER INFORMATION

Date of preparation of SDS	July 2014
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Manufacture Disclaimer

The information supplied on this sheet is to the best of our knowledge accurate at the time of preparation. It does not relieve the user of this product of any responsibility to comply with local, national, or international laws relating to the handling or use of this product.

The suppliers do not accept responsibility for any claims resulting from the misuse of this product or failure to comply with the information stated within.