Safety Data Sheet

NutriSol 8% Manganese

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NutriSol 8% Manganese **CHEMICAL FAMILY:** Inorganic Salt SYNONYMS: Manganese COMMON NAME: Liquid manganese EPA REGISTRATION NUMBER: Not Regulated Manufactured by: **Emergency Telephone Numbers** Coastal AgroBusiness Inc. Chemtrec (24 hours) PO Box 856 1-800-424-9300 Greenville, NC 27835 Coastal AgroBusiness, Inc. (Weekdays – Eastern Standard Time) Phone: 1-800-635-1388 1-800-635-1388

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION- Avoid contact with eyes, skin, and clothing. May be harmful if swallowed or inhaled. Do not take internally.

This product is a clear, purple liquid with a slight odor. Primary route of entry is skin contact. **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

GHS-US Classification STOT - Repeated Exposure Category 2 LABEL ELEMENTS GHS-US Labeling Hazard Pictogram (GHS-US)

Hazard Pictogram (GHS-US)

GHS07 SIGNAL WORD (GHS-US) HAZARD STATEMENTS (GHS-US)

WARNING H373: May cause damage to organs, through prolonged or repeated exposure

Precautionary Statements - Prevention

- P102 Keep out of reach of children
- P202 Do not handle until all safety precautions have been read and understood
- P281 Use personal protective equipment as required
- P264 Wash face, hands, and any exposed skin thoroughly after handling
- P270 Do not eat, drink, or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area



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P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/ eye protection/ face protection.

Precautionary Statements - Response

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P317 - If eye irritation persists: get medical help.

P330 - Rinse mouth

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal site.

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:	<u>Percentage by</u> Weight:	CAS No.	PEL/TLV
Manganese	<u>8%</u>	Proprietary	NOL/NOL
Sulfur	4.5%	Proprietary	NOL/NOL

*Citrate complex compound derived from Manganese Sulfate (8% Manganese (Mn)).

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least fifteen minutes, holding eyelids apart to ensure flushing of the entire eye surface. Do not let victim rub eyes. Seek medical attention.

- **SKIN:** Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.
- **INGESTION:** Give large amounts of water and induce vomiting. Get immediate medical attention. Never induce vomiting or give anything by mouth to an unconscious person.
- **INHALATION:** Remove person from area of exposure. Give artificial respiration if necessary. If breathing is difficult, give oxygen if qualified operator is available. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (∘F/Test Method): FLAMMABLE LIMITS (LFL & UFL):	>200°F Not determined
EXTINGUISHING MEDIA	Foam, CO ₂ , Dry Chemical, and Water; Class BC, ABC Fire Extinguisher
HAZARDOUS COMBUSTION PRODUCTS:	May include oxides of carbon, sulfur, and metals.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Clear fire area of unprotected personnel. Cool fire exposed containers with water. Attack from upwind.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None known

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Small spills: Soak up with absorbent and sweep or shovel into a suitable container for recovery or disposal. **Large Spills:** Control and contain. Dike the spill to minimize contaminated area and facilitate salvage or disposal. Recover material for use, reprocessing, or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

- **HANDLING:** Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Wash thoroughly with soap and water after handing. Wash hands before breaks and at the end of work.
- **STORAGE:** Keep container closed when not in use. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THRESHOLD LIMIT VALUE: PERMISSIBLE EXPOSURE LIMIT: SIGNS AND SYMPTOMS OF EXPOSURE: MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRIMARY ROUTES OF ENTRY: ENGINEERING CONTROLS: RESPIRATORY PROTECTION:

EYE PROTECTION:

SKIN PROTECTION:

NOL NOL

Irritation of skin and eyes. Contact with eyes is painful and irritating. Overexposure: Prolonged skin contact may cause moderate irritation Preexisting eye and skin disorders may be aggravated by exposure to this product. Unnecessary exposure to this product or any chemical should be avoided.

Dermal

Use adequate exhaust ventilation to prevent inhalation of product vapors. None required with adequate ventilation. Use NIOSH-approved respiratory protection equipment is misty conditions exist. Avoid contact with eyes. Wear full face shield or chemical splash goggles when handling. Do not wear contact lenses. Avoid contact with skin. USDA accepted nitrile or neoprene rubber gloves are recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: SPECIFIC GRAVITY: (Water=1): VAPOR PRESSURE: VAPOR DENSITY (Air = 1): % VOLATILITY (V/V): BOILING POINT: MELTING POINT: SOLUBILITY: pH: VISCOSITY @ 20°C: Note: These physical data Clear/purple liquid: slight odor 1.258 0.2 mm Hg 2.5 35% >200°F Not determined Completely miscible in water 8.5 (10% aqueous solution) ≈2.2 cps @ 25°C

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: CONDITIONS TO AVOID: INCOMPATIBILITY: Stable Extreme Temperatures (above 250°C) Strong organic acids and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: HAZARDOUS POLYMERIZATION:	May form carbon dioxide, carbon monoxide, nitrogen compounds, and oxides of manganese and sulfur. Will not occur		
11. TOXICOLOGICAL INFORMATION			
	None		
	Madarata		

EYE IRRITATION: INHALATION LC50: CARCINOGENETIC POTENTIAL:

Moderate May irritate nasal passages and upper respiratory tract. This product is not carcinogenic teratogenic or mutagenic as determined by OSHA, NTP, or IARC. Danger of methemoglobin formation. No data available Mild (Prolonged exposure) May cause damage to organs, through prolonged or repeated exposure (Manganese Sulfate).

SKIN IRRITATION/SENSITIZATION: SPECIFIC TARGET ORGAN TOXICITY - REPEATED OR PROLONGED EXPOSURE

12. ECOLOGICAL INFORMATION

No data available

ACUTE DERMAL LD₅₀:

13. DISPOSAL CONSIDERATIONS

Do not reuse container. Place in trash or offer for recycling. Incinerate contaminated solids in accordance with local, state, and federal regulations.

Waste Disposal Methods: Dispose of in accordance with Local, State, and Federal regulations. Incineration in an authorized and permitted thermal treatment facility or chemical or biological treatment in authorized and permitted treatment facilities is recommended. Material collected with absorbent may be disposed of in a permitted landfill in accordance with Federal, State, and Local regulations. Triple rinse container and dispose of in accordance with all Local, State, and Federal regulations or offer for recycling.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Description: NOT REGULATED BY DOT BY HIGHWAY. Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

<u>NFPA</u> 2 Health 1 Flammability

0 Reactivity

<u>HMIS</u> 2 Health 1 Flammal

1 Flammability 0 Reactivity C PPE

SARA Hazard Notification/Reporting SARA Title III Hazard Category:

Reportable Quantity (RQ) under U.S. CERCLA: SARA, Title III, Section 313: SARA, Title III, Section 302: EHS TPQ RCRA Waste Code:

CA Proposition 65:

Contains no chemical subject to SARA 313

None 10,000 lbs Not listed Not listed

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16. OTHER INFORMATION

SDS STATUS: REASON FOR CHANGE: PREPARED BY: Updated Updated Technical Information Tandy O. Dunn, Director of Health, Safety & Environmental Affairs

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