

Coastal AgroBusiness, Inc.



**Product Label**

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*NutriSol* **8% Manganese**

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**GUARANTEED ANALYSIS**

**Manganese (Mn) ..... 8%**

**(8% Water Soluble Manganese)**

**Sulfur (S) ..... 4.5%**

Derived from Manganese Sulfate

**Weight per gallon: 10.5 lbs.**

**CAUTION**

*KEEP OUT OF REACH OF CHILDREN*

Read entire label for additional Precautionary Statements.



Manufactured By:  
**Coastal AgroBusiness, Inc**  
Greenville, North Carolina

## GENERAL INFORMATION

**NutriSol 8% Manganese** is a formulation designed for use in soil and foliar applications on crops requiring Manganese. **NutriSol 8% Manganese** is formulated for both soil or foliar applications. It may be applied in foliar applications to growing crops alone or with pesticides and may also be applied directly to soil alone or with pesticides or herbicides. **NutriSol 8% Manganese** may be used in drip irrigation systems and is compatible with most water-dispersed pesticides. It may be applied by conventional, low-volume or air application and is recommended for all field, row and vegetable crops. Manganese aids in chlorophyll formation and serves as a catalyst in enzyme reactions such as breakdown of carbohydrates, formation of vitamins and nitrogen transformation. Manganese also activates certain phosphate-transferring enzymes which in turn affect many metabolic processes.

NOTE: Avoid co-application with phosphate-containing fertilizer solutions. Because of the nature of this product and its ability to substantially reduce spray solution pH, it is recommended that this product not be used in low volume (high concentration) applications with fixed copper fungicides.

## PRECAUTIONARY STATEMENTS / HAZARDS TO HUMANS

**CAUTION: KEEP OUT OF REACH OF CHILDREN.** Harmful if swallowed or inhaled. Can cause skin, mucous membrane and eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not apply this product in a manner as to directly or through drift expose workers or other persons. Always read and follow product labeling.

## STATEMENT OF PRACTICAL TREATMENT

**If Inhaled:** Remove immediately to fresh air. Give artificial respiration if necessary. If breathing is difficult, get immediate medical attention.

**If Swallowed:** Give large amounts of water and induce vomiting. Get immediate medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

**If In Eyes:** Flush eyes with copious amounts of clean water for at least 15 minutes. Get medical attention.

**If On Skin:** Remove contaminated clothing and wash skin with soap and water. If irritation develops, get medical attention.

**NOTE:** If contact is made with spray solution containing pesticides, follow the "Statement of Practical Treatment" on the pesticide label.

## STORAGE AND DISPOSAL

Do not store near heat or open flame. Store in original container only. Keep container tightly closed and do not allow water to be introduced into the contents of this container. Keep from freezing. If damaged or leaking, soak up with absorbent material and place in suitable container for disposal. Transfer remaining product to suitable container for storage and label. Do not contaminate water, food or feed by storage or disposal. Do not contaminate water by runoff from equipment wash waters or spray materials. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent) and add rinsate to spray tank, then offer for recycling, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## AGRICULTURAL USE REQUIREMENTS AND USER SAFETY RECOMMENDATIONS

When used in conjunction with pesticides, consult pesticide manufacturer's label for worker protection recommendations. Use of waterproof gloves and protective eyewear is recommended when handling this product.

### DIRECTIONS FOR USE

This product is compatible with most pesticides and fertilizers. However, a test for compatibility is recommended prior to large scale mixing. Always add **NutriSol 8% Manganese** to water prior to the addition of pesticides and/or buffering agents. Do not apply in low volume (high concentration) tank mixes with fixed copper fungicides.

### SOIL APPLICATION

**NutriSol 8% Manganese** can be soil applied but should be incorporated. Crops with severe deficiencies may require supplemental soil applications of **NutriSol 8% Manganese** to maintain proper manganese concentrations in the soil. For best results when soil applied, split applications should be utilized. Do not place in direct contact with seed or starter fertilizer. **NutriSol 8% Manganese** can be applied alone or in combination with agricultural chemicals and liquid fertilizers.

### FOLIAR APPLICATIONS

**NutriSol 8% Manganese** can be foliarly applied. Apply up to 4 quarts per acre by ground or air in enough water to provide maximum coverage. A nonionic surfactant can be utilized to enhance coverage and translocation. For crops requiring multiple Manganese applications above 4 quarts per acre, allow 10 to 14 days between applications. For foliar applications, **NutriSol 8% Manganese** can be applied alone or in tank mixes with agricultural chemicals and fertilizers. The use of tissue tests is highly recommended to monitor levels of Manganese in the crop. Tissue tests will serve as an aid to establish and maintain correct levels of Manganese for optimum plant growth and will help in avoiding over application.

RATE SELECTION CHART	
CONDITION (All Crops)	RATE
Maintenance	1-3 quarts/acre
Light Deficiency	2-6 quarts/acre
Severe Deficiency	2-3 gallons/acre

**Conventional Spray Applications:** Total amount of **NutriSol 8% Manganese** may be applied at one time. However, it is recommended that split applications be utilized. Split applications will improve the overall efficiency of uptake. Apply in enough water for good coverage. A nonionic surfactant may be used to enhance coverage.

**Low Volume Applications:** Apply up to 1 gallon of **NutriSol 8% Manganese** in a minimum of 10 gallons of water per acre per application. Repeat in 10 to 14 days if higher amounts of Manganese are required.

**Aerial Applications:** Apply 1 quart in 5 gallons of water per acre per application. A concentration of 1 quart per gallon of spray may be used. However, larger amount of water will improve coverage.

## MIXING

**With Agricultural Chemicals:** Follow pesticide label for mixing instructions with liquid fertilizers. A compatibility test is recommended. Then:

- Water
- **NutriSol 8% Manganese**
- Agricultural Chemical(s)
- Agitate

**With Fertilizers:**

- 1/3 Liquid Fertilizer
- **NutriSol 8% Manganese**
- Balance of Fertilizer
- Agitate

**Always mix well to insure proper distribution during application**

**NOTICE:** Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with the directions contained on this label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use, storage or handling of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. These risks include, but are not limited to damage to plants, crops, and animals to which the material is applied, failure to control pests, damage caused by drift to other plants or crops, and personal injury.