

CORE 5% MANGANESE EDTA

For correction or prevention of manganese deficiency in agricultural crops, vegetable crops, turf, and ornamentals

3-0-0

GENERAL INFORMATION

Manganese EDTA is a fully chelated, plant available, liquid micronutrient and ethylenediaminetetraacetic acid chelating agent for use in vegetable crops, field crops, trees and vines. Manganese EDTA when used along with a sound fertility program assures the nutritional requirements of the plant.

Core 5% Manganese EDTA is a fully chelated, liquid micronutrient specifically formulated which has low use rates and is compatible with liquid fertilizers containing polyphosphates and orthophosphates.



GUARANTEED ANALYSIS:

Total Nitrogen (N)	3.0%
3.0% Ammoniacal Nitrogen	
Manganese (Mn)	5.0%
5.0% Chelated Manganese	

Derived from: Ammonia and Manganese EDTA

Function of Manganese in Plants

Manganese serves as a activator for enzymes in the plant growth processes. It assists iron in chlorophyll formation. Manganese is necessary in photosynthesis, N metabolism and to form other components required for plant metabolism. It is an essential component of some enzyme systems.

There are a number of functions or processes that manganese is part of in plants including:

- Functions in the formation of riboflavin, ascorbic acid, and carotene.
- Essential for assimilation of carbon dioxide in photosynthesis.
- Serves as a catalyst for enzyme reaction.
- Aids in synthesis of chlorophyll and functions in photosynthesis and nitrate assimilation
- Serves in oxidation-reduction reactions such as to change Fe +++ to Fe++ in the plant

Manganese Deficiency in Plants:

- Manganese deficiencies mainly occur on organic soils, high-pH soils, sandy soils low in organic matter and over limed soils.
- Interveinal chlorosis of young leaves
- Gradation of pale green leaf coloration, with darker color next to veins. There is no sharp color distinction between veins and interveinal areas as there is with iron deficiency.
- Development of grey speks (oats), interveinal white streaks (wheat), interveinal brown spots or streaks (barley), or necrotic spots (potatoes).
- Some crops which are sensitive to manganese deficiency are: corn, cotton, oats, potatoes, soybean, sugar beets, wheat, dry bean, cauliflower, celery, lettuce, onion, spinach, citrus, and peach.

Product Specs

Product class	Fertilizer
Chemical Formula	(NH ₄) ₂ Mn EDTA
Chemical Formula	Diammonium Mn EDTA
CAS:	55448-20-9
Appearance	Clear to slight pink
Specific gravity	1.187
Solubility in water	miscible
Odor	slight ammonia odor
Formulation	liquid
Molecular Weight	379.28
Weight/gallon	9.9 lbs at 68° F
pH (5% solution)	7.0
Min. storage temp.	32°F

Package Sizes: Bulk, 250 gallon mini-bulks, 30 gal drums, 2 x 2.5 gallon package

Product is available from Hanford, CA

This bulletin provides some technical information and is not intended to give complete information for all applications.

Always read and follow label directions.



FOR MORE INFORMATION, LABELS, MSDS and a COMPLETE PRODUCT LIST:

- log onto www.CoreAgri.com
- contact your sales representative
- or call: 1-800-385-4715

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