CORE 6% MANGANESE EDTA

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

0-0-10

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 6% Manganese EDTA is a liquid micronutrient compatible with liquid fertilizers containing polyphosates and othophosphates. This product is a stable manganese chelate and is both ammoniacal nitrogen and sodium free which provides a low odor formulation.

GUARANTEED ANALYSIS:

Soluble Potash (K_2O).....10.0%
Manganese (Mn).....6.0%
6.0% Chelated Manganese

Derived from: Potassium Hydroxide 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 carotine.
- 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 is available from Humboldt, TN

This bulletin provides some technical information and is not intended to give complete information for all applications. Always read and follow label directions.

Product Specs

Product class	Fertilizer
Chemical Formula	K_2Mn EDTA
CAS:	68013-77-0
Appearance	Clear to slight pink
Specific gravity	1.32
Solubility in water	miscible
Odor	no odor
Formulation	liquid
Molecular Weight	421.4
Weight/gallon	11 lbs at 68˚
pH (5% solution)	7.0
Appearance	clear/pink
Min. storage temp.	32°F

Package Sizes: Bulk, 275 gallon mini-bulks, and 2 x 2.5 gallon package.

CORE AGRI

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

- log onto www.CoreAgri.com
- contact your sales representative
- or call: 731-784-0605

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