

Technical Bulletin

Platinum 6% Manganese EDTA

Introduction

Platinum 6% Mn EDTA can be used to correct manganese deficiencies in soils and plants. Platinum 6% Mn EDTA is fully chelated with EDTA acid and is widely recognized as excellent source of manganese for soil applications. Platinum 6% Mn EDTA has low use rates and is compatible with liquid fertilizers containing polyphosphates and orthophosphates.

Symptoms

Manganese deficiency symptoms show yellowing of the interveinal area of the leaves, while veins remain dark green. Often, it is confused with other deficiencies.



Function of Manganese in Plants

Functions of manganese include:

- Serving as reducing agent to change Fe^{+++} to Fe^{++} in the plant

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- Aiding in synthesis of chlorophyll and functions in photosynthesis and nitrate assimilation
- Activating enzymes
- Assimilation of carbon dioxide in photosynthesis
- Activities in the formulation of riboflavin, ascorbic acid, and carotene.

Crops Labeled

Berries: blueberry, raspberry, strawberry

Nut Crops: almond and other nut crops

Grain and Other Crops: alfalfa, barley, canola, corn, hops, lentil, mint, sorghum, soybean, sweet corn, wheat, and cotton

Vegetables: broccoli, cabbage, cauliflower, carrot, celery, lettuce, onion, pea, pepper, potato

Tree and Fruit Crops: apple, citrus, grape, peach, plum and other tree fruits

Use Rates and Timing

Platinum 6% Mn EDTA is most often recommended at 1/2 to 2 quarts per acre. It may be used for foliar or soil applications. However, foliar applications should only be made when local experience supports this use.

Platinum 6% Mn EDTA can be used alone or in combination with liquid fertilizer for pre-plant, starter or side-dress applications. For the most effective treatment of row crops, make soil applications in a band at planting or as a side-dress shortly after planting.

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Storage

Store in stainless steel, fiberglass, polyethylene, or certain other plastic materials. Copper or any of its alloys (brass or bronze) should never be used in any chelate handling system. Aluminum tanks are not recommended. Check with equipment manufacturers for compatibility of components prior to use with this product. NOTE: Do not mix or contaminate any EDTA type chelates with strong acid materials.

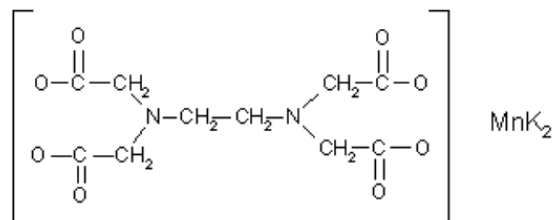
Contents

Guaranteed Analysis 3-0-10

Nitrogen (N).....	3.0%
3% Other water soluble nitrogen	
Soluble Potash (K ₂ O).....	10.00%
Manganese (Mn).....	6.0%
6% chelated Mn	
Arsenic (As).....	<5 ppm
Cadmium (Cd).....	<5 ppm
Lead (Pb).....	<5 ppm

Derived from manganese dipotassium EDTA.

Technical Specifications



Product class	fertilizer
Formulation	liquid
CAS number	68015-77-0
Formula	EDTA-MnK ₂
Molecular Weight	421.4
Weight/ gallon	11 pounds
Specific gravity	1.32
pH (5% solution)	7
Solubility in water	miscible
Appearance	clear/pink
Odor	none
Min. storage temp.	25°F
Container size	bulk 250 gallon mini-bulks 2 x 2.5 gallon package

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

Platinum 6% Mn EDTA is manufactured for RSA MicroTech, LLC.

