

Technical Bulletin

Platinum 4.5%

Iron HEDTA

RSA MicroTech LLC

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Introduction

Platinum 4.5% Fe HEDTA can be used to correct iron deficiencies in soils and plants. Platinum 4.5% Fe HEDTA is fully chelated with EDTA acid. It is widely recognized as excellent source of iron for soil applications. Platinum 4.5% Fe HEDTA has low use rates and is compatible with liquid fertilizers containing polyphosphates and orthophosphates.

Symptoms

Symptoms of iron deficiency include:

- Severe chlorosis – yellowing of leaf tissue with veins remaining green finally becoming “bleached-out”
- In grasses – leaves will show chlorotic striping
- Severe deficiencies result in stunted growth.



Function of Iron in Plants

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

- Chlorophyll development and function
- Respiratory enzymes.
- Transfer of energy in the plant
- Formulation of some proteins.

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 4.5% Fe HEDTA is most often recommended at 1/2 to 4 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 4.5% Fe HEDTA can be used alone or in combination with liquid fertilizer for pre-plant, starter or side-dress applications. For 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

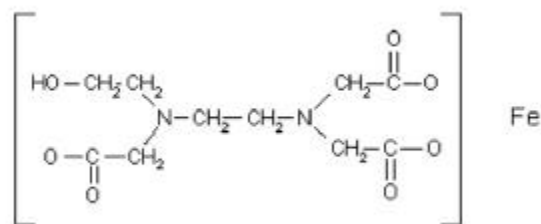
Store in stainless steel, fiberglass, polyethylene, or certain other plastic materials. Copper or any of its alloys (brass or bronze) should never be used in any chelate handling system. Aluminum tanks are not recommended. Check with equipment manufacturer for compatibility of components prior to use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

Contents

Guaranteed Analysis 2-0-0	
Nitrogen (N).....	2.0%
2% Other water soluble nitrogen	
Iron (Fe).....	4.5%
4.5% chelated Fe	
Arsenic (As).....	<5 ppm
Cadmium (Cd).....	<5 ppm
Lead (Pb).....	<5 ppm

Derived from ferric HEDTA.

Technical Specifications



Product class	fertilizer
Formulation	liquid
CAS number	17084-02-5
Formula	HEDTA-Fe
Molecular weight	331.1
Weight/ gallon	11.3 pounds
Specific gravity	1.35
pH (5% solution)	4 to 5
Solubility in water	miscible
Appearance	maroon
Odor	none
Min. storage temp.	32°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 7.5% Cu EDTA is manufactured for RSA MicroTech, LLC.

