

Technical Bulletin

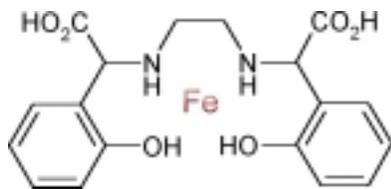
Platinum Iron EDDHA 6%

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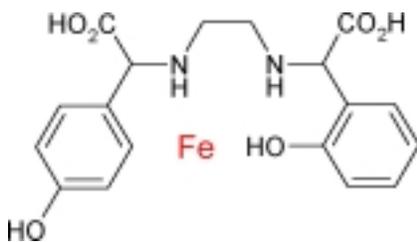
Introduction

Platinum Iron EDDHA 6% is a plant nutrient supplement to prevent and correct iron deficiencies. It performs best in soil applications where the pH is 3.5 to 9.0.

Platinum Iron EDDHA 6% is stable over a wide pH range and has more than 100 times the chelation strength of Fe-DTPA. Depending on the position of the hydroxyl group within the phenolic ring, the EDDHA chelating may consist of four isomers. Ortho-ortho and ortho-para isomers are recognized as chelating agents. Platinum Iron EDDHA 6% has an optimum ratio of ortho-ortho and ortho-para isomers (shown below).



Fe-EDDHA ortho-ortho isomer



Fe-EDDHA ortho-para isomer

The Fe EDDHA ortho-ortho isomer protects the iron in the presence of carbonates and other metals which are present in calcareous and alkaline soils. This

isomer which has six molecular bonds provides stability in the soil and provides extended availability through out the growing season.

The Fe EDDHA ortho-ortho isomer releases the iron more quickly due to the fact that its hydroxyl group is further apart and four molecular bonds are attached to the iron. This isomer is responsible for quick action and sufficient stability in alkaline and calcareous soils.

The combination of both isomers provides quick action and longer term availability.

Recommended Crops

Berries: blueberry, strawberry

Nut Crops: pecan, walnut and other nut crops

Grain and Other Crops: canola, corn, cotton, edible bean, rice, sorghum, soybean, and wheat

Brassica (cole) Leafy Vegetables: (such as but not limited to) broccoli, brussel sprouts, and cauliflower

Vegetables: carrot, melons, onion, pepper, potato, and tomato

Leafy Vegetables (except brassica vegetables): (such as but not limited to) celery, lettuce, spinach

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

Commercial Nursery and Ornamental Crops, Turf

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Use Rates and Timing

<u>Deficiency</u>	<u>Pounds/ acre</u>
Maintenance	1/2 to 1
Moderate deficiency**	1 to 1-1/2
Severe deficiency**	1-1/2 to 2

** Or as determined by tissue analysis.



Precautions

When mixing, use tanks made of stainless steel, fiberglass, polyethylene, or other plastic materials.

Contents

GUARANTEED ANALYSIS

3-0-0

Nitrogen (N).....	3.0%
3.00% other water soluble nitrogen	
Iron (Fe).....	6.0%
6.0% chelated iron*	

Arsenic (As).....<0.003%

Cadmium (Cd).....<0.002%

Lead (Pb).....<0.001%

Derived from iron EDDHA.

* 4.0% iron in the ortho-ortho isomer of Fe-EDDHA.

Technical Specifications

Product class	fertilizer
CAS number	16455-61-1
Formula:	$C_{18}H_{16}O_6N_2NaFe$
Molecular Weight	434.8
Appearance	Dark-red micro granular
Bulk Density (loose)	870 kg/m ³ (54 lb/ft ³)
pH (1% solution @ 25°C)	7 to 8
Solubility (g/100 ml @ 20°C)	30
Packaging	10 lb boxes 96 boxes per pallet

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

Platinum Iron EDDHA 6% is manufactured for RSA MicroTech, LLC.

