

# Technical Bulletin

## Platinum Iron DTPA 11%

### Introduction

Platinum Iron DTPA 11% is intended for use as a plant nutrient supplement to correct iron deficiencies, performs best in soil applications where the soil pH is 6.0 to 7.5.

Platinum Iron DTPA 11% is recommended in hard water areas over Fe EDTA in foliar applications. It is compatible with a wide range of fertilizer materials, herbicides, fungicides, and other pesticides.

Platinum Iron DTPA 11% is well suited for use in greenhouses using soil and soil-less media. Chelation of iron is essential in using soil-less media. The chelating agent should be chosen carefully based on the pH stability of the growing system. Platinum Iron DTPA 11% is stable in nutrient solutions to a pH of 7.0. Above a pH of 6.0, Fe-EDTA starts to become insoluble, resulting in subsequent precipitation.

Dutch research has shown Fe DTPA is a better choice than Fe EDTA and explains why Dutch growers use less iron as compared to growers using Fe EDTA. Platinum Iron DTPA 11% is recommended for all greenhouse applications and many growers will switch to Platinum Fe EDDHA 6% if an upset occurs in the greenhouse. Once stable conditions return, they switch back Fe DTPA.

### Recommended Crops

**Berries:** blueberry, strawberry

**Nut Crops:** pecans, walnuts and other nut crops

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**Grain and Other crops:** canola, corn, cotton, edible beans, rice, sorghum, soybeans, wheat

**Vegetables:** broccoli, cabbage, cauliflower, carrots, celery, lettuce, melons, onions, peppers, potatoes, tomatoes

**Tree and Fruit Crops:** apple, avocados, cherries, citrus, grapes, peaches, plum and other tree fruits.

**Commercial Nursery and Ornamental Crops, turf**

### Use Rates and Timing

For greenhouses, the use rate depends on the desired iron level in the nutrient solution; typically from 1 to 5 ppm.

For application in pivot, sprinkler, overhead, drip, and solid set irrigation. For best results, apply within 2 weeks of planting and before flowering using 0.5 to 5 pounds per acre or the dosage rates and timing as recommended for each crop.

Platinum Iron DTPA 11% may be mixed with most liquid fertilizers or pesticides before injection into the irrigation water.



Use a back-flow check valve to prevent the material from getting in the water supply.

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### Technical Specifications

<b>Product class</b>	fertilizer
<b>CAS number</b>	12389-75-2
<b>Formula:</b>	DTPA-FeHNa
<b>Molecular Weight</b>	468.2
<b>Appearance</b>	light yellow powder
<b>Bulk Density (loose)</b>	750 kg/m <sup>3</sup> (46.6 lbs/ft <sup>3</sup> )
<b>pH (1% solution @25°C)</b>	2.5 - 3.5
<b>Solubility (g/100ml) 20°C</b>	11
<b>Packaging</b>	10 lb boxes 96 boxes per pallet

### Precautions

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

### Contents

#### GUARANTEED ANALYSIS

Iron (Fe).....	11.0%
11.0% Chelated Iron (Fe)	
Arsenic (As).....	<0.003%
Cadmium (Cd).....	<0.002%
Lead (Pb).....	<0.001%
Derived from iron DTPA.	

**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 DTPA 11% is manufactured for RSA MicroTech, LLC.

