

Technical Bulletin

RSA IronMan+

RSA MicroTech
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Introduction

IronMan+ can be used to correct iron deficiencies in soils and plants. Yellowing of terminal leaves (picture at right of sorghum) are typical symptoms of iron deficiency. This product also contains manganese and zinc which are often associated with iron deficiencies.

Function of Iron in Plants

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

- Essential for chlorophyll development and function
- Functions in the respiratory enzymes.
- Serves to transfer energy in the plant
- Functions in the formulation of some proteins.

Benefits of RSA IronMan+

RSA IronMan+ is a unique foliar product containing iron, manganese and zinc . Benefits include:

- low use rates
- will help acidify the spray solution

Use Rates and Timing

RSA IronMan+ is most often recommended at 1 to 4 quarts per acre usually with at least two applications. This product can be applied either by ground or by aerial applications.

Precautions :

Do not store below 32°F. RSA IronMan+ can be corrosive to tanks, pumps, meters and fittings. Store in stainless steel or polyethylene tanks with stainless steel or polypropylene/polyethylene fittings. Store out of direct sunlight.



Crops Labeled

Berries: strawberry

Nut Crops: almonds, walnuts and other nut crops

Grain and Other crops: alfalfa, barley, canola, corn, cotton, hops, lentils, mint, rice, sorghum, soybeans, sugar beets, sweet corn, wheat,

Vegetables: asparagus, broccoli, cabbage, cauliflower, carrots, celery, lettuce, melons, onions, peas, peppers, potatoes, tomatoes, turnips

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



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Contents

6-0-0

Guaranteed Analysis

Total Nitrogen (N)	6.0%
2.85% Nitrate Nitrogen	
3.15% Urea Nitrogen	
Sulfur (S)	1.0%
Iron (Fe)	6.0%
Manganese (Mn)	2.0%
Zinc (Zn)	1.0%
Derived from: Urea, Ferrous Sulfate, Ferric Chloride, Ferric Nitrate, Manganese Nitrate, and Zinc Nitrate.	

Chlorine not more than 3.8%

Technical Specifications

Product class	fertilizer
Formulation	liquid
Weight/ gallon	10.9 pounds
Specific gravity	1.31
pH	1 to 3
Solubility in water	miscible
Appearance	light green
Odor	none
Min. storage temp.	32°F
Container size	
	bulk
	270 gallon mini-bulks
	2 x 2.5 gallon package

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VS

Ferrous Sulfate Heptahydrate

FEATURES and BENEFITS

Liquid IronMan+ is a liquid for easy use, no mixing of a dry product like Ferrous sulfate into water,

Ease of use Ferrous Sulfate will over time cake and get hard in the bag, IronMan+ because it is liquid does not have this problem. IronMan+ is ready to be used, just add into spray tank, very minimal agitation and you are ready to spray.

Contains Nitrogen IronMan+ contains nitrogen for better foliar uptake, Ferrous Sulfate does not have nitrogen

Better Formulation IronMan+ provides 5 elements vs ferrous sulfate only providing 2. IronMan+ also provides manganese and zinc which enhance iron utilization. This makes IronMan+ a better choice for crops like soybeans and grain sorghum.

Immediate update by the plant IronMan+ is formulated for better availability by the plant. IronMan + does a better job reducing the pH of the water than does ferrous sulfate heptahydrate.

Clear Solution IronMan+ is a clear solution and not a suspension. Most ferrous sulfate heptahydrate contains 1 to 2% by weight calcium carbonate to reduce caking. IronMan+ is formulated for better availability by the plant. IronMan+ does a better job buffering the pH of the water than ferrous sulfate heptahydrate.

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

