

Technical Bulletin

RSA Humisul

RSA MicroTech LLC
P.O. Box 64589, St Paul, MN 55164-0589
1.800.426.5969 www.rsamicrotech.com

Introduction

RSA Humisul can be used to correct iron deficiencies in soils and plants. RSA Humisul has a high sulfur to iron ratio (1:13) which improves the iron availability.

pH of 1% solution	2.94
pH of 5% solution	2.56
pH of 10% solution	2.34

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

RSA Humisul is most often applied at the rate of 25 to 50 pounds per acre.

amount of product per acre	amount of S per acre	amount of Fe per acre
25	2.75	3.50
50	5.50	7.00
75	8.25	10.50
100	11.00	14.00

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For turf grasses and sod farms apply at the rate of .5 to 2 pounds per 1,000 square foot.

amount of product per 1,000 sq ft	amount of S in lbs /1,000 sq ft	amount of Fe in lbs /1,000 sq ft
0.5	0.06	0.07
1	0.11	0.14
1.5	0.17	0.21
2	0.22	0.28

Package size

bulk
2,000 super sacks
50 lb bags, 40 bags per pallet

Screen Analysis :

95% minimum 5 to 16 mesh US Sieve (4 mm to 1.2 mm)
maximum 1% passing thru a 16 mesh US Sieve

Note Sieve analyses are typical as tested, handling and transportation may affect the analysis.

Contents

Guaranteed Analysis

Sulfur (S) 11.0%
Iron (Fe) 14.0%
14.0% Water Soluble Iron
Derived from ferrous sulfate

Arsenic (As).....<5 ppm
Cadmium (Cd).....<5 ppm
Lead (Pb).....<25 ppm

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

RSA Humisul is manufactured by RSA MicroTech, LLC.

Technical Specifications

Product class fertilizer
Formulation dry granular
Size Guide Number (SGN) 260
Bulk Density (loose) 69
Uniformity Index (UI) 44
pH (10% solution) 2.25 to 2.5
Solubility in water miscible
Appearance brown
Odor none

