

Technical Bulletin

RSA Humitech®

Six Plus

RSA MicroTech, LLC

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Introduction

Organic matter in soil may exert a beneficial effect in crop growth by controlling the aggregation of soil particles, adding to the moisture holding capacity of the soil, and acting as carrier of nutrients both NPK and micronutrients,

Humic substances are made up of 5 major compounds, the breakdown of humic and fulvic are summarized in the table below.

Distrbution of elements

	humic acid	fulvic acid
Carbon	56.1%	45.8%
Hydrogen	4.6%	5.4%
Nitrogen	3.2%	2.1%
Oxygen	35.3%	44.8%
Sulfur	0.8%	1.9%

Specially Formulated

RSA Humitech® Six Plus is a high purity humic acid product extracted from leonardite and fermented using carbohydrates. The formulation is designed to provide a balance of high molecular weight (HMW) and low molecular weight (LMW) humic acids (commonly called fulvic acids).

RSA Humitech® Six Plus is a low pH compatible humic acid product. It can be mixed with most liquid fertilizers including ATS, KTS, calcium, micronutrients, 10-34-0 and acid based fertilizers (pH > 2.0). It is a liquid formulation and provides the highest quality humic acid. Some humic products are dry formulations, ie. spray dried. During the drying process, excessive heat may break down some of the organic compounds.



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

Turf: general and high maintenance turf.

Use Rates and Timing

Properly timed applications of adequate amounts of **RSA Humitech® Six Plus** may increase nutrient uptake, especially calcium and potassium. It is recommended that growers should monitor plant nutrient status to assure proper application timing occurs.

Most crops will respond during



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canopy/leave development. Pre-bloom is best uptake

timing for potassium enhancement. Rapid periods of root development are best for calcium uptake.

Consult the label for timing with each crop. **RSA Humitech[®] Six Plus** can be applied either as a foliar or via drip irrigation. For general turf: apply **RSA Humitech[®] Six Plus** at 8 to 16 fluid ounces per 1,000 square feet (2.7 to 5.4 gallons of product per acre) in early spring, early summer and mid-fall. Use at least one gallon of water per 1,000 square feet (40 gallons of water per acre).

Precautions

Do not store below 32⁰F and do not allow the product to freeze. Always shake, stir or agitate containers or tanks of **RSA Humitech[®] Six Plus** just prior to usage. **RSA Humitech[®] Six Plus** is compatible with most pesticides, herbicides and defoliants. Determine compatibility with a jar test and/or consult pesticide representative before tank-mixing products.

Contents

Guaranteed Analysis 0-0-1
Total potassium (K₂O).....1.0%
Humic acids.....5.0%
Arsenic (As).....<5 ppm
Cadmium (Cd).....<5 ppm
Lead (Pb).....<5 ppm
Potassium is derived from potassium hydroxide. Humic acid is derived from Leonardite. Also contains non-plant food ingredients.

RSA Humitech[™] Six Plus contains 0.44 lb. dry soluble humic acid per gallon.

Technical Specifications

Product class	fertilizer
Formulation	liquid
Weight/ gallon	8.8 pounds
Specific gravity	1.06
pH	4-6
Solubility in water	miscible
Appearance	brown-black liquid
Odor	odorless
Min. storage temp.	32°F
Container size	2 x 2.5 gallon package 250 gallon mini-bulks bulk

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

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