

# Technical Bulletin

## RSA Humitech™ Humic 8

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### Introduction

**RSA Humitech™ Humic 8** is an 8% humic acid as determined by the state of California method for humic acid. The product is derived from leonardite. Leonardite, is a soft, earthy, medium brown substance, named after A.G. Leonard, the first director of the North Dakota Geological Survey. The significant elemental difference between leonardite and lignite is the oxygen content (leonardite, 28-29%, lignite, 19-20%). The higher oxygen content of leonardite is due entirely to a larger number of carboxylic acid groups.

### Specially Formulated

The formulation is designed to provide a balance of high molecular weight (HMW) and medium molecular weight (MMW) humic acids and is recommended for soil applications. The product is made from a premium grade of leonardite and a unique process to extract the largest number of carboxylic acid compounds.

### Crops Labeled

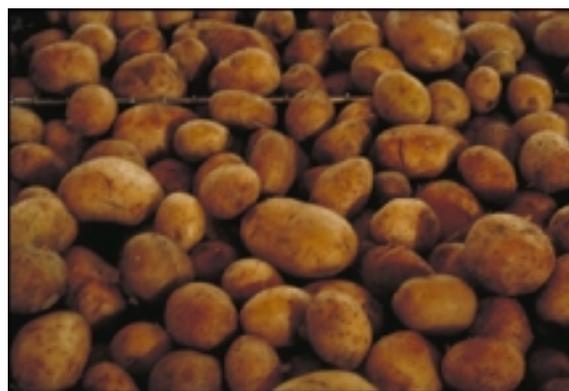
**Berries:** strawberry

**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, and turnips

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



### Use Rates and Timing

**RSA Humitech™ Humic 8** can be soil applied or via irrigation on all crops at rates of 2 to 15 gallons per acre. It is best to use this product in split applications with other fertilizer and micronutrient products at 1 to 2 gallons per acre in 2 to 4 applications.



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## RSA Humitech<sup>™</sup> Humic 8

### Precautions

Do not store below 32<sup>0</sup>F. Do not allow the product to freeze. Store out of direct sunlight. Keep in a cool location out of reach of children and livestock. Always shake, stir or agitate containers or tanks of **RSA Humitech<sup>™</sup> Humic 8** just prior to usage. **RSA Humitech<sup>™</sup> Humic 8** is compatible with most pesticides, fertilizers except with those with a low pH. herbicides and defoliant except selective herbicides. The product is not recommended to be mixed with calcium products. Determine compatibility with a jar test before mixing products and/or consult a pesticide representative.

### Contents

Guaranteed Analysis

#### 0-0-4

Total Potassium (K<sub>2</sub>O) 4.0%  
Derived from: potassium hydroxide.

#### Also Contains Non-Plant Food Ingredients

Humic Acids 8.0  
8% Humic Acid derived from leonardite  
(~0.7 lb. per gallon, dry soluble humic acid per gallon)

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

### Technical Specifications

**Product class** fertilizer  
**Formulation** liquid  
**Weight/ gallon** 8.8 pounds  
**Specific gravity** 1.06

**pH** 10-11  
**Solubility in water** miscible  
**Appearance** dark black liquid  
**Odor** earthy odor  
**Min. storage temp.** 32°F  
**Container size**  
bulk  
270 gallon mini-bulks  
2 x 2.5 gallon package

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

Humitech is a registered trademark of RSA MicroTech.

