

Technical Bulletin

RSA Citrus Knight

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

Introduction

RSA Citrus Knight is a unique formulation of soluble magnesium, manganese and zinc salts. It is designed to treat the related nutrient deficiencies and disorders in citrus. RSA Citrus Knight can be used as a foliar spray to supplement a complete fertility program.

Zinc and manganese deficiency occurs almost everywhere citrus is grown. Zinc and manganese deficiency symptoms often coexist on the same shoots and the resulting chlorosis may be difficult to determine. Leaf analysis may be necessary to complete the diagnosis.

Critical nutrient concentrations in citrus leaves.

Element	Deficient	Satisfactory	Excess
N %	<2.5	2.5-2.8	>2.8
Mg %	<0.19	0.19-0.5	>0.5
Mn ppm	<19	19-100	>100
Zn ppm	<19	19-50	>50

Data is for 4 to 6 month-old leaves on nonfruiting twigs on a dry weight basis.

Crops Labeled

Citrus Fruits including but not limited to grapefruit, lemon, lime and sweet orange.

Use Rates and Timing

Apply at the following rates per acre when leaf and soil tests are not available:
Maintenance application -----1 quart
Moderate deficiency -----1/2 to 1 gallon
Severe deficiency -----1 to 2 gallons

If tree crops are sprayed several times a year, the above amount can be split into numerous applications.

Mixing Instructions

Put half of the water in the tank. Add the correct amount of RSA Citrus Knight. Fill the tank with water. Add other chemicals, if any.* Agitate adequately until mixed.

*CAUTION: Check compatibility with chemical mixtures. RSA Citrus Knight is formulated to mix with most commonly used insecticides and fungicides. However, a jar test for compatibility should be performed prior to application. Do not mix with copper or tin fungicides unless the solution is buffered to neutral pH.

Precautions

This product is acidic and injurious to eyes and skin. In case of contact with eyes and/or skin, immediately flush with plenty of water and seek medical attention. Use eye protection and protective clothing. RSA

Citrus Knight and dilute solutions can be corrosive to tanks, pumps, meters and fittings. Store in stainless steel or polyethylene tanks with stainless steel or polypropylene/polyethylene fittings.

Dispose of empty containers by triple rinsing and discard empty containers in a



Technical Bulletin

RSA Citrus Knight

landfill in accordance with current local, state, and federal regulations.

Contents

Guaranteed Analysis	
7-0-0	
Total Nitrogen (N).....	7.0%
0.1% ammoniacal nitrogen	
6.9% nitrate nitrogen	
Magnesium (Mg).....	3.0%
Manganese (Mn).....	4.5%
Zinc (Zn).....	5.0%
Arsenic (As).....	<5 ppm
Cadmium (Cd).....	<5 ppm
Lead (Pb).....	<5 ppm
Derived from ammonium nitrate, magnesium nitrate, manganese nitrate, and zinc nitrate.	

Shipping information Nitrates,
inorganic. Aqueous solution, n.o.s.
(contains zinc nitrate, manganese nitrate)
5.1, UN3218, III

Formulation	liquid
Weight/ gallon	12 pounds
Specific gravity	1.44
pH	3-4
Solubility in water	miscible
Appearance	clear to light yellow
Odor	odorless
Min. storage temp.	32°F
Container size	bulk 250 gallon mini-bulks 2 x 2.5 gallon package

Technical Specifications

Product class fertilizer



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

RSA Citrus Knight is manufactured for RSA MicroTech, LLC.

