

Technical Bulletin

RSA Ruffin-Redy[®] Zn

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Introduction

Ruffin-Redy[®] Zn can be used to correct zinc deficiencies in soils and plants. Ruffin-Redy[®] Zn is chelated with citric acid and EDTA acid. Ruffin-Redy[®] Zn has low use rates and is compatible with liquid fertilizers containing polyphosphates. Its unique formulation is derived from zinc chloride and zinc oxide for improved product characteristics.

Symptoms

Major symptoms of zinc deficiency in corn include:

- shortened internodes
- stunted growth
- yellow to whitish streaking in the leaves (see pictures to the right)
- reddish streaks on stalk near base with severe deficiency.

Function of Zinc in Plants

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

- precursor of auxins
- synthesis of chlorophyll and functions in photosynthesis and nitrate assimilation
- activating enzymes in protein synthesis and grain formation
- seed formation and maturity.

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



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Use Rates and Timing

Ruffin-Redy[®] Zn is most often recommended at 1 to 3 quarts per acre. It may be used for foliar or soil applications. However, foliar applications should only be made when local experience supports this use.

Ruffin-Redy[®] Zn can be applied alone or in combination with liquid fertilizer for pre-plant, starter or side-dress applications. For most effective treatment of row crops, make soil applications in a band at planting or as a side-dress shortly after planting.

Contents

Guaranteed Analysis 7-0-0

Nitrogen (N).....7.0%
Zinc (Zn).....10.0%
10% chelated Zn

Arsenic (As).....<5 ppm
Cadmium (Cd).....<5 ppm
Lead (Pb).....<5 ppm
Chelating agents: citric acid and EDTA.
Derived from ammonia, zinc chloride and zinc oxide.

Technical Specifications

Product class	fertilizer
Formulation	liquid
Weight/ gallon	10.3 pounds
Specific gravity	1.235
pH	7.4 to 7.6
Solubility in water	miscible
Appearance	clear to light yellow
Odor	slight ammonia
Min. storage temp.	20°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.

Ruffin-Redy is a registered trademark of RSA MicroTech, LLC.

