

Technical Bulletin

RSA Flo Cel™

Zin-Man

RSA MicroTech

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Introduction

RSA Flo Cel™ Zin-Man is a high analysis liquid manganese and zinc product. It supplements a well balanced fertilizer program and should be used to correct and prevent manganese and zinc deficiency. RSA Flo Cel™ Zin-Man can be used in three different applications: as a seed treatment, as a foliar application, and for dry fertilizer impregnation.

Functions and Symptoms

Manganese is essential as an enzyme activator which helps with nitrate assimilation. It is closely associated with copper, iron and zinc as a catalyst in plant growth processes. It is primarily involved in photosynthesis and chlorophyll production.

Manganese deficiency symptoms include: yellowing of the leaves with the veins remaining dark green, leaf veins remain dark green, occurrence all over the plant, and stunted growth.

Zinc is associated with the formation of:

- 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.

Zinc deficiency symptoms include: shortened internodes, stunted growth, and yellow to whitish streaking in the leaves. Zinc is not readily translocated from old to new tissue so deficiency symptoms first appear on new growth,

Benefits

RSA Flo Cel™ Zin-Man provides a number of benefits including:

- Providing high levels of manganese and zinc
- Application with a wide range of other agricultural chemicals, reducing the number of spray applications
- A free flowing formulation that makes it easy to decant into spray equipment and mixing tanks.

Crops Labeled

All agricultural crops where manganese and zinc are needed.



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Use Rates and Timing

RSA Flo Cel™ Zin-Man is most often recommended at 1/2 to 1 pint per acre in a foliar application. For specific crops, consult the label.

As a seed treatments, apply RSA Flo Cel™ Zin-Man liquid at the rate of 2 to 3.8 fluid ounces per 100 pounds of seed. This rate provides 0.521 – 0.989 dry ounces of actual manganese and 0.731 – 1.389 dry ounces of actual zinc per 100 pounds of seed.

Precautions

Avoid mixing with strong acid or strong oxidizing agents. Do not apply under extreme environmental conditions.

Contents

Guaranteed Analysis

0 –0 –0

Manganese (Mn).....14.1%

Zinc (Zn).....19.8%

Derived from manganese carbonate and zinc oxide.

Each gallon contents 2.08 lbs of manganese and 2.92 lbs of zinc.

Technical Specifications

Product class	fertilizer
Formulation	liq. flowable
Weight/ gallon	14.77 pounds
Specific gravity	1.70 – 1.75
pH	8.5-9.5
Appearance	brown suspension
Odor	odorless
Min. storage temp.	32°F*
Container size	2.5 gallons
Packaging	50 jugs/pallet

* do not allow to freeze.

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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