

Manganese Plus™

Low Rates
High Response



Manganese Plus™

Soil/Foliar Nutrient

GUARANTEED ANALYSIS 0-0-0

Combined Sulfur(S) 5.82%
Soluble Manganese (Mn) 10.00%

Derived from Manganese Sulfate
Weight per gallon: 11.10 lb at 68° F
Grams per liter: 1332 g at 20° C

GENERAL INFORMATION:

Manganese Plus is designed as a source of manganese to treat or prevent deficiencies for all field, row, vegetable, fruit, tree, vine, ornamental and turf crops.

CONTAINS NON-PLANT FOOD INGREDIENTS: Amino Acids, Enzymes, Vitamins and DeltAg Proprietary Complexing Agent.

Manganese Plus may be

- Foliar applied alone or with pesticides
- Used in drip irrigation systems
- Applied to soil via conventional methods

COMPATIBILITY:

This product is compatible with most commonly used pesticides. However, it is advisable to always check for compatibility.

APPLICATION RATE:

Soil: 24 to 32 ounces per acre.

Foliar: 1 Pint per acre. Apply in a minimum 5 gallon volume for ample coverage.* As much as 32 ounces per acre can be applied where deficiencies are observed.

Drip Irrigation: Apply one-tenth (0.10) ounce per 1,000 square feet of foliage weekly as needed.

Injection at 1 to 100: Add 1 ounce per gallon of mix tank water (78 ppm of product) weekly as needed.

*Apply with ample water volume for good foliar coverage.

*For More Information Please Contact *DeltAg*.

Manganese Plus™

Function of Manganese

Manganese functions in cellular respiration, synthesis of chlorophyll, redox reactions and has a direct effect on germination as well as maturation.

Critical to Keeping Crop Development On Track!

Manganese & Soybeans

A consistent phenomenon in production of glyphosate resistant soybeans has been seedling chlorosis that tends to surface in some areas of some fields. This is especially prevalent in fields with little or no rotation with other crops. At *DeltAg*, for many years, with *Manganese Plus* at 16 to 32 ounces per acre, we have treated this condition as a manganese deficiency that we felt was somehow caused by the plants inability to metabolize manganese. We often see this even when manganese soil levels are high. Today, with some really great University Research, we know this to be the case.

Research has shown that, while the addition of manganese to the glyphosate does not tend to be beneficial, a treatment AFTER the symptoms occur, can be very beneficial and has been shown to increase yields by as much as 15%. Also, we are only treating the effected areas instead of entire crops.

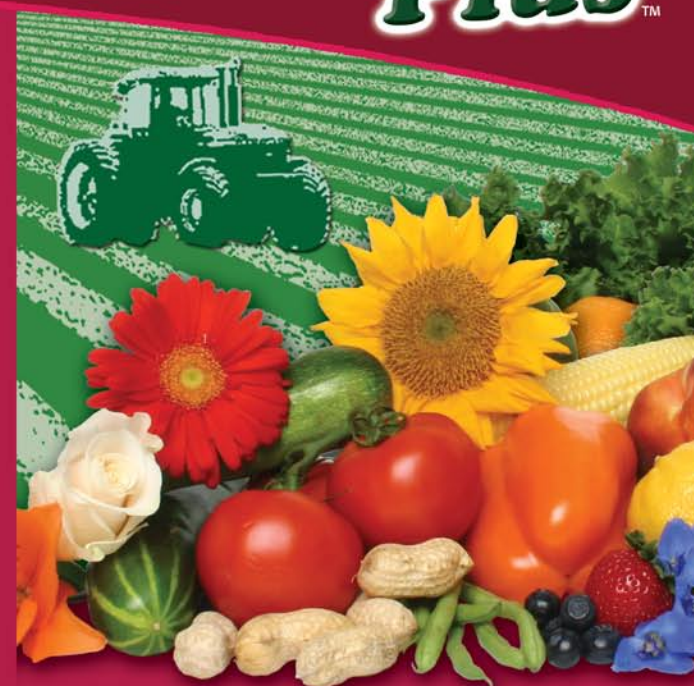
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Keep Crop Development & Maturity On Track



www.seedcoat.com

Manganese Plus™



**Chemistry....
Not Fertilizer!**

Delivers Nutrients Faster



Manganese Plus utilizes *DeltAg's* proprietary complexing agent *Fulvore*, which contains a high concentration of a material that performs much like fulvic acid. This complexor will enhance a plant's ability to take in nutrients and aids in improved translocation of these materials throughout the plant. The "Plus" indicates the presence of this agent "Fulvore" as well as *DeltAg's* proprietary amino acid-vitamin chemistry. *Manganese Plus* has the ability to perform adequately at very low application rates as compared to other manganese sources.

Manganese Plus contains manganese that has been blended with *DeltAg's* proprietary chemistry and is designed to deliver faster absorption and better translocation for improved effectiveness. With this chemistry, *Manganese Plus* shows superior performance.

Manganese Plus Versatility

- In-furrow with Seed
- Seedling Foliar
- Side-Dress
- Injection
- Drip
- Fertigation
- Impregnation

*Healthy Manganese levels
aid plants to maintain their metabolism
and keeps the maturity process on track.*

Manganese Plus Common Applications

Seedling Chlorosis

Vegetable Crops

Citrus Orchards

Mast Crops

Glyphosate Recovery

More About Manganese Plus:

Manganese Plus is used as a soil or foliar manganese source where manganese deficiencies occur or where additional manganese is desired. Always conduct a compatibility test before any large scale mixing.

Comparison of *Manganese Plus* to other sources of manganese has proven the superior uptake of manganese into the plant. A typical use rate for soil applications is to apply 24 to 32 ounces in side-dress liquid fertilizers. Broadcast rates are not generally recommended. Foliar applications at 16 to 32 ounces have proven to be very effective.

*Low Rate
Crop Response*

*It's Not What You Put Out,
But What Gets in the Plant....*

That Counts!



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