

## GENERAL INFORMATION

**ACTAGRO 4% MANGANESE** is formulated in a patented process for the prevention or correction of manganese deficiencies in plants and can be effectively used for both foliar and soil applications. It contains **Organic Acids** which may aid in soil applied and foliar applied micronutrient availability.

**ACTAGRO 4% MANGANESE** is recommended for foliar application as a dilute spray and should be applied early in the crops growth cycle for maximum utilization.

**ACTAGRO 4% MANGANESE** is recommended for band application during preplant, planting or sidedress operations.

**ACTAGRO 4% MANGANESE** is non-phytotoxic when used as directed and may be combined with most pesticides and fertilizers.

**ACTAGRO 4% MANGANESE** will be influenced by differences in varieties, soil and environmental conditions and should be applied under conditions of optimum plant growth. Optimum conditions are defined as adequate humidity, moderate temperatures and adequate soil moisture. Optimum conditions for most crops generally occur during early morning or late evening hours.

**WARRANTY:** Since weather, crops, soil and other conditions may vary, neither ACTAGRO, LLC, nor the Seller make a warranty of any kind, expressed or implied, concerning the use of this product. The user assumes all risk of use and handling whether or not in accordance with directions or suggestions.

**KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.** In case of contact immediately flush skin, eyes or clothing with plenty of water for at least 15 minutes.

**CAUTION:** ACTAGRO 4% MANGANESE mixtures should be stirred daily. Do not mix ACTAGRO 4% MANGANESE with ACTAGRO PLANT PLUS, unless it is diluted with water. If any other chemicals are to be used in the spray mixture be sure to check compatibility.



# 4% MANGANESE

U.S. PATENT No. 4,698,090 and NO. 4,786,307

## A LIQUID MICRONUTRIENT

### GUARANTEED ANALYSIS

Sulfur (S) .....	2.5%
Manganese (Mn) .....	4.0%

Derived from manganese sulfate.

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

4% ORGANIC ACIDS derived from leonardite.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

## Net Contents 5 gallons (18.9 liters)

10.9 lbs. Per Gallon (1307 grams/liter) @ 68° F

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## DIRECTIONS FOR USE

### FOLIAR APPLICATION RATES

**VEGETABLES, CUCURBITS, FIELD AND ROW CROPS:** Apply 1 to 4 pints per acre in 15 to 25 gallons of water per acre as a directed foliar spray when plants are 8 to 12 inches in height. For aerial applications, use a minimum of 5 gallons of water per acre. May be applied through Center Pivot Irrigation Systems.

**DECIDUOUS FRUIT AND NUT TREES, OLIVES AND CITRUS:** Apply 1 to 4 pints per acre. Aerial applications use a minimum of 5 gallons of water per acre. Dilute or concentrate sprays use a minimum of 15 gallons of water per acre.

**NOTE:** For best results use the lowest possible volume for thorough coverage and a small droplet size.

### SOIL APPLICATION RATES

**VEGETABLES, CUCURBITS, FIELD AND ROW CROPS:** Apply through a drip system or inject into the soil 3 to 6 inches deep either below or off to the side of the plant row. May be applied with preplant or sidedress fertilizers. Use 1 to 4 quarts per acre. May be applied through Center Pivot Irrigation Systems.

**DECIDUOUS FRUIT AND NUT TREES, GRAPES, OLIVES AND CITRUS:** Apply through a drip system or inject at the drip line 3 to 5 inches deep. Use 1 to 4 quarts per acre.

### MIXING INSTRUCTIONS

**ACTAGRO 4% MANGANESE** disperses well in water. For best results mix as follows:

1. Partially fill tank with water or fertilizer and start agitation.
2. Add other nutrients or pesticides if compatible.
3. Add 4% MANGANESE to circulating tank mix.
4. Fill tank and agitate thoroughly.