



# MULTI-ACTION™ MANGANESE

## GUARANTEED ANALYSIS

Manganese (Mn)..... 2.0%

Derived From: Manganese Sulfate complexed with Citric Acid, Gluconic Acid

### ALSO CONTAINS BENEFICIAL SUBSTANCES

Bacterial Fermentation Media (microbe food)..... 11.0%

Humic Acid (from Leonardite)..... 0.10%

## GENERAL INFORMATION

MULTI-ACTION™ MANGANESE is designed to be more than just a nutrient, with 3 modes of action:

1. Provides Manganese in a readily available format for plant uptake.
2. Releases bound-up nutrients in the soil due to the acidic nature of the product.
3. Improves the biological structure of the soil through the addition of microbe food sources.

MULTI-ACTION™ MANGANESE is a single element product designed for use as a foliar or soil applied nutrient to correct Manganese deficiencies and is recommended for use on all soil types. It can be applied in combination with compatible plant growth regulators, pesticides, or other liquid fertilizers. MULTI-ACTION™ MANGANESE is intended to be a supplement to a fertility program. Always monitor crop nutrient needs and responses with a soil, leaf tissue and irrigation water analysis program.

**This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.**



WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. www.P65Warnings.ca.gov.

## DIRECTIONS FOR USE

### SOIL APPLICATIONS

Soil applications may be made through fertigation (sprinklers, microsprinklers, drip, flood or furrow) or sprayed/injected in a band or in transplant solution. When applying this material via a fertigation system, continue to operate the system 30-60 minutes after material has completely injected to flush clean water through the system.

### FOLIAR APPLICATIONS

MULTI-ACTION™ MANGANESE is a concentrated solution and should be diluted with water before use to ensure uniform coverage. Do not apply this product foliar in concentrations greater than 5.0%. For maximum results, apply in the early morning or in the evening when air temperatures are optimum for foliar application. Do not apply MULTI-ACTION™ MANGANESE during the hottest time of the day or to plants under drought or flood stress. DO NOT apply this product when the crop is under water stress. Application after irrigation or rainfall is best. Spraying should be carried out on a calm day but not during strong sunshine. Early morning or late afternoon applications are best. If rainfall occurs within 2 hours after application, it may be necessary to re-spray in 3 to 4 days.

### PRECAUTIONS

AGITATE WELL BEFORE USE. DO NOT APPLY TO TREES BEARING MATURE FRUIT UNTIL YOU HAVE DETERMINED THAT THIS PRODUCT WILL NOT DAMAGE OR MARK THE FRUIT. NOT FOR USE IN ORGANIC CROP AND ORGANIC FOOD PRODUCTION.

### COMPATIBILITY

This product has an acidic pH and is compatible with many commonly applied nutrients and crop protection products. Contact an Ultra Gro, LLC representative for a list of compatible mixes. Jar test for compatibility prior to mixing with any pesticides, fertilizers or fertilizer blends. For unfamiliar mixes, an appropriate amount of the final mix should be applied to a small area of the intended crop to ensure plant compatibility prior to the planned application. User assumes full responsibility to ensure product, equipment and plant compatibilities.

### STORAGE AND SHELF LIFE

Store in a sealed container in a cool dry place, out of direct sunlight. Store at temperatures above 32°F and below 95°F. Use within 36 hours of mixing. Re-seal container after each use.

## SUGGESTED APPLICATION RATES

### VEGETABLE CROPS Including Beans, Peas, Potatoes, Sweet Corn, Tomatoes, etc:

*Foliar:* 0.5 to 2 quarts with at least 10 gallons of water per acre

*Aerial:* 2 quarts with at least 10 gallons of water per acre

*Soil:* 2 to 7 gallons per acre with enough water to provide uniform coverage

### FIELD CROPS Including Corn, Dry Beans, Sorghum, Sugarbeets, Sugar Cane, Cotton, etc.

*Foliar:* 0.5 to 2 quarts with at least 10 gallons of water per acre

*Aerial:* 2 quarts with at least 10 gallons of water per acre

*Soil:* 2 to 7 gallons per acre with enough water to provide uniform coverage

### TREES AND VINES Including Almond, Apple, Apricot, Avocado, Berry, Cherry, Citrus, Grape, Olive, Pear, Peach, Pistachio, Plum, Walnut, etc.:

*Foliar:* 0.5 to 2 quarts with at least 10 gallons of water per acre

*Aerial:* 2 quarts with at least 10 gallons of water per acre

*Soil:* 2 to 7 gallons per acre with enough water to provide uniform coverage

**LIMITED WARRANTY** Manufacturer or seller makes no warranty, whether expressed or implied, concerning the use of this product other than for the purposes indicated on the label. Neither manufacturer nor seller shall be liable for any injury or damage caused by this product due to misuse, mishandling, or any application not specifically described on the label.

Information regarding the contents and levels of metals in this product is available at <http://www.aapfco.org/metals.html>. Always refer to the label on the actual product container before using any Ultra Gro, LLC Products.

MULTI-ACTION™ is a trademark product of Ultra Gro, LLC, Madera, CA. STATES: CA | REV: 072125

Guaranteed by:  
**Ultra Gro, LLC**  
1043 S. Granada Drive  
Madera, CA 93637 (559) 661-0977

## NET CONTENTS:

5 gallons (18.93 liters)

250 gallons (946 liters)

Bulk: \_\_\_\_\_ gallons, \_\_\_\_\_ liters

**DENSITY: 8.72 pounds per gallon @ 68°F**



**ULTRA GRO**  
*Ag is Life™*