



MANGANESE

Micronutrient

Guaranteed Analysis

Sulfur (S)	2.50%
2.50% Combined Sulfur (S)	
Manganese (Mn)	5.00%
5.0% Water Soluble Manganese (Mn)	

Derived From:

Manganese Sulfate.

Also Contains Non-Plant Food Ingredient:

4.5% Organic Matter (derived from leonardite)

Physical Properties:

Form: Liquid

Appearance: Clear, light amber, having a characteristic odor.

Weight: 9.18 lb/gal, 1.10 kg/L

pH: 1.5–2.0

Caution:

Keep out of reach of children.

Harmful if swallowed. This product may be toxic by ingestion or inhalation of high mist concentrations.

The liquid and mists may cause irritation to the eyes, skin, and respiratory tract.

Storage and Disposal:

Keep product in original container. Do not transfer into food or drink containers. Triple rinse when empty for recycling. Always dispose of container in accordance with local, state, and/or federal regulations. Do not store this product below 50°F (10°C) or above 90°F (30°C).

Conditions of Sale:

The information contained in this bulletin is believed to be accurate and reliable. Buyer and user acknowledge and assume all liability resulting from the use of this material. Follow directions carefully. Timing, method of application, weather, crop conditions, and other factors are beyond the control of the seller.

The Solution for Improved Manganese Nutrition in Plants

Huma Gro® MANGANESE carbon-complexed with Micro Carbon Technology® ensures efficient and effective uptake of manganese, which is a micronutrient involved in many plant metabolic activities including photosynthesis, enzyme activity, and nutrient regulation.

Benefits of Use:

- An enzyme activator that aids in chlorophyll synthesis
- Closely associated with the micronutrients copper and zinc
- Activates the lipid enzymes
- Essential for assimilation of carbon dioxide in photosynthesis
- Functions in the formation of riboflavin, ascorbic acid, and carotene
- Improves formation of lateral roots

Deficiency Symptoms—When to Apply:

- Chlorosis and/or mottling due to manganese deficiency
- Plants may be pale green to yellow-red in color between green veins on soybeans, tomatoes, and beets
- Tips of small grains turn gray to white (gray speck in oats)
- In neutral to alkaline soils high in calcium and in organic soils where manganese is less available

Application Instructions:

Contents are highly concentrated and must be diluted with water in a ratio of at least 20 parts water to 1 part product prior to foliar application. See table below for specific rate instructions. Consult your local Huma Gro® representative or other agricultural specialist for crop-specific recommendations. SHAKE WELL BEFORE USING.

METHOD OF APPLICATION	SUGGESTED RATE	
	Field Crops / Tree or Vine Crops	
Foliar band application at 50% coverage	Up to 1 cup/acre, 700 mL/hectare	—
Foliar broadcast or sprinklers: solid, set, pivot, linear (100% speed)	Up to 1 pint/acre, 1.25 liters/hectare	Up to 1 quart/acre, 2.5 liters/hectare
Soil banded or injected, through drip tape or micro sprinklers	Up to 1 pint/acre, 1.25 liters/hectare	Up to 1 quart/acre, 2.5 liters/hectare
Soil broadcast spray incorporated, flood or furrow irrigated	Up to 1 quart/acre, 2.5 liters/hectare	Up to 2 quarts/acre, 5 liters/hectare



Powered by
**MICRO CARBON
TECHNOLOGY**

**This Product Contains Micro Carbon Technology®, a proprietary blend of very small organic molecules that allows for more effective absorption of nutrients by plants.*