



# MAGNESIUM CHELATE 3%

## LIQUID ORGANIC CHELATE

- **ASSISTS IN CHLOROPHYLL PRODUCTION**
- **FOR FOLIAR AND ROOT APPLICATION**

### GUARANTEED ANALYSIS:

Magnesium (Mg) ..... 3%  
 3% Water Soluble Magnesium (Mg)  
 Derived From: Magnesium sulfate.  
 Chelating Agent: Glucoheptonate.  
 Weight per gallon ..... 9.61 lbs.  
 Weight per liter ..... 1.12 kg  
 Each gallon contains ..... 0.28 lbs Mg  
 Each litre contains ..... 0.033 kg Mg

### PRODUCT DESCRIPTION:

Magnesium Chelate 3% is an organic chelate that provides magnesium in a soluble form, making it readily available for both soil and foliar application. Magnesium Chelate 3% is environmentally sound, and is made from organic sugars that are easily absorbed intact along with the chelated metal and utilized in the plant cell. Magnesium Chelate 3% is available for microbial activity in the soil. This type of chelate is especially efficient in high pH soils, or calcareous soils and is recommended over EDTA chelates. Magnesium Chelate 3% is a near neutral pH of 7.5 and is ideal for mixing with pH acid sensitive products. It is not affected by soil conditions, other nutrients or technical grade materials. Magnesium Chelate 3% will remain in a soluble form for plant uptake since it remains a double ++ charge ion and is not attracted to negatively charged soil particles. Magnesium Chelate 3% is compatible with all Growth Products professional fertilizers. Be sure to read all mix instructions prior to tank mix solutions.

### MAGNESIUM DEFICIENCIES:

Magnesium is a very important secondary nutrient. It is part of the chlorophyll molecule, and is necessary for sugar formation. Inadequate amounts of magnesium will first appear as a general loss of green color at bottoms of older leaves (interveinal chlorosis). Continued deficiency will also affect younger leaves, followed by formation of lesions. Magnesium deficiencies occur mostly in sandy soils and in extremely high pH soils. High levels of calcium and potassium will also reduce magnesium uptake.

**Turf Applications:** Soil testing is necessary to determine magnesium levels. Where magnesium levels are deficient or marginal, apply Magnesium Chelate 3% throughout the growing season. This can be added to any fertilizer spray solution.

**For Bahia, Bent, Centipede, Tall Fescue, St. Augustine and Zoysiagrasses:** Apply 2-6 oz. of Magnesium Chelate 3% per 1,000 square feet with sufficient water for good coverage.

**For Bermudagrass:** Apply 4-8 oz. of Magnesium Chelate 3% per 1,000 square feet.

**CAUTION:** Keep out of reach of children. In case of contact with eyes, flush immediately with copious amounts of water. Contact a physician. Do not take internally.

- **FOR TURF AND ORNAMENTALS**
- **NATURAL ORGANIC CHELATING AGENT**

**For Bluegrass and Ryegrass:** Apply 2-6 oz. per 1,000 square feet. Three to five applications per season are recommended.

**Trees & Ornamentals:** Magnesium Chelate 3% can be used as a foliar spray to correct Magnesium deficiencies. Dilute 24-36 oz. in 100 gallons of water. Spray leaf surface until covered.

Magnesium Per Liquid Ounce (ml)	
Magnesium Chelate 3%	Magnesium Rate
44 oz 1.2 L	1/10 lb. Mg 40 g Mg
55 oz 1.5 L	1/8 lb. Mg 50 g Mg
1 gal 3 L	1/4 lb. Mg 100 g Mg
Apply at desired magnesium rate per 1,000 FT <sup>2</sup> (100 m <sup>2</sup> )	

### STORAGE & HANDLING:

**Mixing:** Magnesium Chelate 3% is NOT compatible with phosphate fertilizers, and must be mixed and applied separately.

Manufactured By:

