



MAGNESIUM CHELATE 3%

GLUCOHEPTONATE ORGANIC CHELATE

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

F106

GUARANTEED ANALYSIS:

Magnesium (Mg) 3%
 3% Chelated Magnesium (Mg)

Derived From: Magnesium sulfate.
 Chelating Agent: Glucoheptonate.

PRODUCT SPECIFICATIONS:

Weight per gallon 9.61 lbs.
 Weight per liter 1.12 kg
 pH 6.5
 Each gallon contains 0.28 lbs Mg
 Each liter 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 6.5 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.

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

- **NATURAL ORGANIC CHELATING AGENT**
- **UNIQUE SUGAR-ACID CHELATE**
- **QUICKLY CORRECT DEFICIENCIES**

Foliar Turf Applications		
Application	Rate / 1,000 FT ² (100 m ²)	Frequency
All Types of Cool Season and Warm Season Grasses	2 - 6 oz (127 - 159 ml)	Apply 3 to 5 times during growing season or as needed to maintain color
Bermudagrass	4 - 8 oz (159-177 ml)	

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

Palm Program		
Transplant Fertilization	1 quart in 100 gallons of water (250 L in 100 L water)	Drench root ball and soil at time of planting
Established Palms Soil Drench	2 - 3 ounces per gallon of water. Thoroughly drench soil around area (250 ml per 100 L water)	Applied 2 times per year or as required.
Established Palms Soil Injection	1 quart in 100 gallons of water (250 ml in 100 L water)	Inject 1 ft from trunk and out to drip line every 2 - 3 foot in grid pattern. Inject 1/2 gal per hole at 6 - 8 " deep.
Foliar Spray	1 quart per 100 gal of water (250 ml 100 L water)	Thoroughly spray to point of run-off. Apply every 4 weeks or as needed.

STORAGE & HANDLING:

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

FIRST AID	
IF SWALLOWED:	Call a poison center or doctor if you feel unwell: Rinse mouth.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
IF ON SKIN:	Remove contaminated clothing and wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
IF INHALED:	Call a poison center or doctor if you feel unwell.
You may also contact 1-800-992-5994 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101), Keep out of reach of children (P102), Read label before use (P103).	
STORAGE: Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets.	
DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	

The following precautionary statements and pictograms are based on The Globally Harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)



WARNING

H303 May Be Harmful if Swallowed
H316 Causes Mild Skin Irritation
H320 Causes Eye Irritation

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

Manufactured in the USA By: 

