

MAGNESIUM 3%

GROWTH[®] PRODUCTS

THE LIQUID SOLUTIONS COMPANY

**PROFESSIONAL
LIQUID FERTILIZERS
& MICRONUTRIENTS**

**Quickly Corrects Deficiencies
Aids Chlorophyll
Production**

Net Wt. 24 lbs. (11.5 kg)

Shake Well Before Using

2 1/2 Gallons (10 Liters)

P-3-LBL-MAGFB-002-UNIV-03122021

MAGNESIUM 3%

F106



OPEN
Resealable Label
for Directions &
Precautions

GUARANTEED ANALYSIS:

Magnesium (Mg) 3%
3% Water Soluble Magnesium (Mg)

Derived From: Magnesium Sulfate, Magnesium Glucoheptonate.

PRODUCT SPECIFICATIONS:

Weight per gallon 9.61 lbs
Weight per liter 1.12 kg
Each gallon contains 0.28 lbs Mg
Each liter contains 0.033 kg Mg

PRODUCT DESCRIPTION:

Magnesium 3% provides magnesium in a soluble form, making it readily available for both soil and foliar application. Magnesium 3% is available for microbial activity in the soil. This type of magnesium is especially efficient in high pH soils, or calcareous soils and is recommended over EDTA chelates. Magnesium 3% is ideal for mixing with pH acid sensitive products. It is not affected by soil conditions, other nutrients or technical grade materials. Magnesium 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 3% is compatible with all Growth Products professional fertilizers. Be sure to read all mix instructions prior to tank mix solutions.

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

Another quality product from:

Growth Products, Ltd.

21417 County Rd.-1950 E

Princeton, IL 61356 USA

Questions? Call (800) 648-7626



www.growthproducts.com • questions@growthproducts.com

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 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

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 3% throughout the growing season. This can be added to any fertilizer spray solution.

Trees, Ornamentals & Palms: Magnesium 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.

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)	

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.

Magnesium Per Liquid Ounce (ml)

Apply at desired magnesium rate per 1,000 FT² (100 m²)

Magnesium 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

Crop Programs

Plant / Crop:	Application Rate per Acre
Berries	Use 1-2 quarts per acre. Thoroughly wet leaves to run off. (2 - 5 liters per hectare)
Citrus Trees:	Use 1-2 quarts per acre. Thoroughly wet leaves to run off. (2 - 5 liters per hectare)
Fertigation:	Apply 1 - 2 quarts per acre via drip tape or low volume irrigation. (2 - 5 liters per hectare)
Foliar Spray: Tomatoes, Small Fruit, Grapes and Vegetables	Use 1-2 quarts in a minimum of 50 gallons of water with ground spray equipment. Apply at least 6 times per season to correct minor nutrient deficiencies. Wet leaves to run off . (2- 5 L per 200 L water)
Greenhouse & Shadehouse:	Apply 1 - 2 quarts per 100 gal water as a foliar spray. Repeat every 1 - 2 months or as needed. (250 - 500 ml per 100 liters water)
Liners and Plugs:	Apply 8 oz - 1 qt per 100 gallons water as foliar spray (63 - 250 ml per 100 liters water)
Nut Trees	Use 1-2 quarts per acre. Thoroughly wet leaves to run off. (2 - 5 liters per hectare)
Tropical Fruits	Use 1-2 quarts per acre. Thoroughly wet leaves to run off. (2 - 5 liters per hectare)

Nursery Applications

Application	Rate	Notes
Containerized and Field Grown Crops, (including but not limited to): Deciduous and Evergreen Trees, Foliage, Ornamental Grasses, Perennials, Tropicals, Woody Ornamentals	Foliar Spray: 1-2 quarts per 100 gal of water (250-500 ml in 100 liters water) Rate Per Gallon: 2-4 tsp per gal of water	Thoroughly spray to point of run-off. Apply every 2-4 weeks.

Magnesium 3% PPM Rates

Fluid Oz. of Magnesium per Gallon of Stock Tank Water

PPM Magnesium	25	50	75	100
1:500	47	94	-	-
1:300	28	56	84	112
1:200	19	37	56	75
1:100	9	19	28	37
1:50	5	9	14	19
1:15 Ratio for Hozon Proportioner				
1:15	1.41	2.81	4.22	5.62