



Magnesium FL

4-0-0

Foliar Nutritional Liquid Flowable

A formulated product for the treatment of magnesium deficiency by foliar application.

GUARANTEED ANALYSIS

Total Nitrogen (N)	4.00%
4.00% Urea Nitrogen	
Magnesium (Mg)	20.00%
0.00% Water Soluble Magnesium (Mg)	

Derived from urea and magnesium hydroxide

Nutrient content per gallon: 2 lb. 8 oz. Magnesium (Mg)

Chlorine (Cl), Maximum

1.00%

KEEP OUT OF REACH OF CHILDREN

WARNING

May be harmful if swallowed
 May be harmful in contact with skin
 May be harmful if inhaled
 Causes serious eye irritation
 Causes mild skin irritation



WT.PER GAL.: 12.7 lbs (5.77 kg)

YSN 031715/0815

NET CONTENTS: □ 2.5 gals (9.46 L)

□ 250 gals (946.35 L)

Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017 and giving the lot number which is found on the container.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.htm>

Contents Made In Great Britain

F224

MANUFACTURED FOR
 HELENA CHEMICAL COMPANY
 225 SCHILLING BOULEVARD, SUITE 300
 COLLIERVILLE, TN 38017
 901-761-0050

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.

May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled. Causes serious eye irritation. Causes mild skin irritation. Do not apply product in such a manner as to directly expose workers or other persons. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling. Read label before use. If medical advice is needed, have product container or label at hand.

Personal Protective Equipment (PPE): Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, and shoes plus socks when using this product. Take off any contaminated clothing and wash before reuse.

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a POISON CENTER or doctor for treatment advice.
IF ON SKIN OR HAIR:	<ul style="list-style-type: none"> Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
IF SWALLOWED:	<ul style="list-style-type: none"> Call a POISON CENTER or doctor immediately. Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor.
If there is contact made with the spray solution containing pesticides and/or spray adjuvants, follow the "Statement of Practical Treatment/First Aid" on the product(s) labeling.	

HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

STORAGE AND DISPOSAL

Keep in a cool, dry chemical store, out of reach of children and livestock. Protect from frost. Keep container tightly closed, do not allow water to be introduced to the contents of this container. Store at temperatures above 32°F. Do not contaminate water sources by cleaning of equipment or disposal of spray waste. Dispose of empty containers by triple rinsing with detergent solution or puncture and discard empty containers in a landfill in accordance with current local, state and federal regulations.

GENERAL INFORMATION

Ele-Max® Magnesium FL is a formulated treatment for magnesium deficiency in agricultural and horticultural crops, and grasses. This product is recommended for use as a supplement to a well-balanced fertilizer program only. It is not intended nor implied to be a substitute for sound soil fertilization and good conventional cultural practices. Thorough coverage of foliage is necessary for best results.

For additional information on product or programs or if you are unfamiliar with any of the application methods, contact your local Helena representative or authorized Helena dealer.

Avoid application under extremes of climate, e.g., rapid drying conditions, extremely slow drying conditions, frost, rain, or when frost or rain are anticipated.

DIRECTIONS FOR USE

Shake the container thoroughly before use.

FERTILIZER IMPREGNATION

May be coated onto dry fertilizer granules.

WARNING: This product must not be used with straight ammonium nitrate fertilizer, or any other fertilizer product classified as an oxidizing agent – Class 5.1 material. For further advice, please consult your Helena representative.

FOLIAR DOSE RATE AND TIMINGS

Alfalfa: 1 to 2 pints/acre applied 10 to 14 days after regrowth commences post-cutting (when there is enough regrowth to take a spray). Water rate: 5 to 20 gallons/acre.

Apples: 1 to 2 quarts/acre after petal fall. Repeat if necessary at 10 to 14 day intervals. In cases of severe deficiency apply also before flowering (around pink bud stage). On russet sensitive varieties delay applications until 6 weeks after petal fall.

Water rate: 20 to 100 gallons/acre.

Apricots: 1 to 2 quarts/acre at fruit set. If necessary a second application may be made 10 to 14 days later. Also, 2 quarts/acre after harvest but before leaf senescence. Water rate: 20 to 100 gallons/acre.

Asparagus: 4 to 5 applications of 1 to 2 quarts/acre during vegetative growth, with repeat applications at 10 to 14 day intervals. Water rate: 5 to 20 gallons/acre.

Beans: 1 to 2 quarts/acre when crop is 4 to 6" tall. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 3 to 20 gallons/acre.

Blackcurrant: 1 to 2 quarts/acre. 2 applications a) Full flower, b) First fruit set. Water rate: 20 to 50 gallons/acre.

Blueberries: 1 to 2 quarts/acre applied 10 days after petal fall has finished. Bushes being grown for a second cropping year should receive the fruiting year program again. Water rate: 100 gallons/acre.

Broccoli: 1 to 2 quarts/acre at 4 to 6 leaf stage, with repeat applications at the above rate at 10 to 14 day intervals for moderate to severe deficiency. Water rate: 3 to 20 gallons/acre.

Brussel Sprouts: 1 to 2 quarts/acre at 4 to 6 leaf stage, with repeat applications at the above rate at 10 to 14 day intervals for moderate to severe deficiency. Water rate: 3 to 20 gallons/acre.

Cabbage: 1 to 2 quarts/acre at 4 to 6 leaf stage, with repeat applications at the above rate at 10 to 14 day intervals for moderate to severe deficiency. Water rate: 3 to 20 gallons/acre.

Calabrese: 1 to 2 quarts/acre at 4 to 6 leaf stage, with repeat applications at the above rate at 10 to 14 day intervals for moderate to severe deficiency. Water rate: 3 to 20 gallons/acre.

Canola: For a single application, 1 to 2 quarts/acre at onset of stem extension. For moderate deficiency, 2 quarts/acre at 4 to 6 leaf stage and 2 quarts/acre at onset of stem extension. An extra application can be made 10 to 14 days later for severe deficiency. Avoid flowering. Water rate: 3 to 20 gallons/acre.

Carrots: 1 to 2 quarts/acre when crop is 5 inches tall. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 5 to 20 gallons/acre.

Cauliflower: 1 to 2 quarts/acre at 4 to 6 leaf stage, with repeat applications at the above rate at 10 to 14 day intervals for moderate to severe deficiency. Water rate: 3 to 20 gallons/acre.

Celery: 1 to 2 quarts/acre at the 4 to 6 leaf stage. Repeat 10 to 14 days later if necessary. Water rate: 20 gallon/acre.

Cereals: 1 to 2 quarts/acre from 2 leaf stage to first node detectable (Zadok's G.S. 12 to 31). For moderate to severe deficiency repeat applications at 10 to 14 day intervals. A further application at up to 4 pints/acre at flag leaf ligule just visible to anthesis complete (Zadok's G.S. 39 to 69) for milling quality wheats. Water rate: 3 to 20 gallons/acre.

Cherries: 1 to 2 quarts/acre at fruit set. If necessary a second application may be made 10 to 14 days later. Also, 1 to 2 quarts/acre after harvest but before leaf senescence. Water rate: 20 to 100 gallons/acre.

Citrus: 1 to 2 quarts/acre from 2/3 of new leaf development in the spring. For moderate to severe deficiency repeat application 10 to 14 days later. Also, 1 to 2 quarts/acre applied during autumn flush. Repeat 10 to 14 days later if necessary. Water rate: 20 to 50 gallons/acre.

Cole Crops: 1 to 2 quarts/acre at 4 to 6 leaf stage, with repeat applications at the above rate at 10 to 14 day intervals for moderate to severe deficiency. Water rate: 3 to 20 gallons/acre.

Conifers/Fir Trees: 1 to 2 applications of 1-2 quarts/acre when there is new season leaf production, and again in early autumn. Water rate: 50 to 100 gallons/acre.

Corn: 1 to 2 quarts/acre at 4 to 6 leaf stage. Water rate: 3 to 20 gallons/acre.

Cotton: 1 to 2 quarts/acre one month after 100% emergence. Repeat as required at 10 to 14 day intervals. Water rate: 3 to 20 gallons/acre.

Cranberries: 1 to 2 quarts/acre applied at hook stage or early bloom. Water rate: 20 to 50 gallons/acre.

Cucurbits (Field Grown): 1 to 2 quarts/acre at 4 leaf stage. Repeat if necessary 10 to 14 days later. Water rate: 20 gallons/acre.

Dry Bean: 2 quarts/acre at 4 to 6 inch stage. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 20 gallons/acre.

Ginseng: 1 to 2 quarts/acre applied once the new season growth is well underway. Repeat applications at 10 to 14 day intervals may be necessary for moderate to severe deficiency. Water rate: 50 gallons/acre.

Groundnuts/Peanuts: 1 to 2 quarts/acre from 4 leaves to the start of flowering. Water rate: 3 to 20 gallons/acre.

Leek: 1 to 2 quarts/acre. 2 weeks after transplanting or, in the case of direct sown crops, when the crop is 6 inches tall. For moderate to severe deficiency, 1 to 2 repeat applications may be necessary at 10 to 14 day intervals. Water rate: 3 to 20 gallons/acre.

Lettuce (Field Grown): 1 to 2 quarts/acre 10 to 14 days after transplanting or emergence. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 5 to 20 gallons/acre.

Melons (Field Grown): 2 to 3 applications at 10 to 14 day intervals of 1 to 2 quarts/acre commencing when sufficient leaf area to intercept spray is present. Water rate: 5 to 20 gallons/acre.

Nectarines: 1 to 2 quarts/acre at fruit set. If necessary a second application may be made 10 to 14 days later. Also, 1 to 2 quarts/acre after harvest but before leaf senescence. Water rate: 20 to 100 gallons/acre

Nursery/Ornamentals: Two and a half gallons in 100 gallons water (2.5% v/v) as soon as there is sufficient leaf area to intercept a spray. Repeat at 10 to 14 day intervals as necessary. Avoid applications during flowering. Spray a maximum of three applications per crop per annum. Note: Do not apply within one month of picking/marketing. Maximum water rate: 20 gallons/acre.

Nuts (Deciduous): 1 to 2 quarts per acre at spring bud burst, first emergent leaves and again during nut development. Water rate: 50 to 100 gallons per acre.

Alternatively: 1 to 2 quarts per acre at bud break and after harvest before leaf senescence. Water rate: 50 to 100 gallons per acre.

Onions: 1 to 2 quarts/acre two weeks after transplanting, or in the case of direct sown crops, when the crop is 6" tall. Repeat applications at 10 to 14 day intervals. Water rate: 3 to 20 gallons/acre.

Ornamentals: Two and half gallons (2.5 gals) in 100 gallons water (2.5% v/v) as soon as there is sufficient leaf area to obtain thorough coverage. Repeat at 10 to 14 day intervals as necessary. Avoid applications during flowering. Spray a maximum of three applications per crop per annum. Note: Do not apply within one month of picking/marketing. Maximum water rate: 20 gallons/ acre.

Peaches: 1 to 2 quarts/acre at fruit set. If necessary a second application may be made 10 to 14 days later. Also, 1 to 2 quarts/acre after harvest but before leaf senescence. Water rate: 20 to 100 gallons/acre

Peanuts: 1 to 2 quarts/acre from 4 leaves to the start of flowering. Water rate: 3 to 20 gallons/acre.

Pears: 1 to 2 quarts/acre after petal fall. Repeat if necessary at 10 to 14 day intervals. In cases of severe deficiency apply also before flowering (around pink bud stage). On russet sensitive varieties delay applications until 6 weeks after petal fall. Water rate: 20 to 100 gallons/acre.

Peas: 1 to 2 quarts/acre at 4 to 6" stage. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 3 to 20 gallons/acre.

Peppers (Field Grown): 1 to 2 quarts/acre applied from the 4 to 6 leaf stage onwards. Repeat applications may be necessary. Water rate: 50 gallons/acre.

Plums: 1 to 2 quarts/acre at fruit set. If necessary a second application may be made 10 to 14 days later. Also, 1 to 2 quarts/acre after harvest but before leaf senescence. Water rate: 20 to 100 gallons/acre.

Potatoes: 1 to 2 quarts/acre 1 week after 100% emergence and following petiole analysis during tuber bulking. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 3 to 20 gallons/acre.

Raspberries: 1 to 2 quarts/acre at start of flowering and at 10 to 14 day intervals as necessary, up to 14 days before harvest. Water rate: 20 to 50 gallons/acre.

Rice: 1 to 2 quarts/acre applied at start of tillering. Water rate: 3 to 20 gallons/acre.

Sorghum: 1 to 2 quarts/acre at the 4 to 8 leaf stage. Water rate: 3 to 20 gallons/acre.

Soybeans: 1 to 2 quarts/acre when crop is 2 to 6 inches tall, repeated at 10 to 14 day intervals if necessary. Water rate: 3 to 20 gallons/acre.

Spinach: 1 to 2 quarts/acre at the 4 to 6 leaf stage. Repeat if necessary 10 to 14 days later. Water rate: 20 gallons/acre.

Strawberries (Field Grown): 1 to 2 quarts/acre at green bud. Repeat if necessary at 10 to 14 day intervals. Water rate: 50 gallons/acre.

Sugar Beet: 1 to 2 quarts/acre at 4 to 6 leaf stage. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 5 to 20 gallons/acre.

Sunflower: 1 to 2 quarts/acre at 4 to 8 pairs of leaves. For moderate to severe deficiency repeat application 10 to 14 days later. Water rate: 3 to 20 gallons/acre.

Tobacco: 2 applications of 1 to 2 quarts/acre two to three weeks after transplanting (3 to 4 leaf stage) with 10 days between applications. Water rate: 3 to 50 gallons/acre.

Tomatoes (Field Grown): 1 to 2 quarts/acre at 4 to 6 leaf stage onwards. Repeat if necessary at 10-14 day intervals. Water rate: 5 to 50 gallons/acre.

Turf: 1.5 fl. oz./1000 sq. ft. as soon as growth commences in spring. Repeat sprays at 10 to 14 day intervals as necessary. Water rate: 0.5 gallons/1000 sq. ft.

DO NOT APPLY NEAR WATER, STORM DRAINS, OR DRAINAGE DITCHES. DO NOT APPLY IF HEAVY RAIN IS EXPECTED. APPLY THIS PRODUCT ONLY TO YOUR LAWN/GARDEN.

Vines: 1 to 2 quarts/acre at flower bud visible, flower buds separated and fruit set. For grape stalk necrosis: 2-4 quarts/acre at pea sized berries, start of veraison and 1 month before harvest. Water rate: 20 to 50 gallons/acre.

TANK MIXING/CO-APPLICATION

Read ALL labels carefully and adhere strictly to the instructions for use and advice regarding whether or not product(s) should be co-applied. Many variables can influence the performance of co-applied products and therefore co-application is entirely at the risk of the end-user. It is strongly recommended that a limited application is made initially when using unfamiliar product mixes. Before co-application of products you, or your advisor, must visit www.tankmix.com/elemax for important information or do a jar test.

CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale-Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

This label is believed to be reliable and must be followed carefully. Injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose

Disclaimer: Always refer to the label on the product before using Helena or any other product.

referred to subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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