



Phos-K-Mg LC

0-29-5

Foliar Nutritional Liquid Concentrate

A formulated product for the treatment of magnesium and phosphorus deficiencies by foliar application.

GUARANTEED ANALYSIS

Available Phosphate (P ₂ O ₅)	29.00%
Soluble Potash (K ₂ O)	5.00%
Magnesium (Mg)	4.10%

Derived from phosphoric acid, magnesium phosphate, potassium chloride and potassium phosphate.

Chlorine (Cl), Maximum

Nutrient content per gallon: 3 lb. 11 oz. P₂O₅, 10 oz. K₂O, 8 oz. Mg

KEEP OUT OF REACH OF CHILDREN

DANGER

May be corrosive to metals
 May be harmful if swallowed.
 May be harmful in contact with skin
 Causes severe skin burns and eye damage
 May be harmful if inhaled



WT. PER GAL: 12.05 lbs. (5.47 kg)

YSN 090514

NET CONTENTS: □ 2.5 gal. (9.46 L)

□ 250 gal. (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.aapfc.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

DANGER

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

May be corrosive to metals. May be harmful if swallowed. May be harmful in contact with skin. Causes severe skin burns and eye damage. May be harmful if inhaled. Keep product locked up and out of the reach of children. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clothing before reuse. Do not take internally. Avoid contact with or inhalation of spray application mist if present Do not apply this 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. Not for human or animal consumption.

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.

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

FIRST AID	
IF IN EYES:	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:	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:	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:	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.

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

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in original container only. Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate. Keep locked up and out of the reach of children.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading and add rinse water to spray tank. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrecycle.org. Decontaminated containers may also be disposed of in a sanitary landfill.

For help in chemical emergencies involving spill, leak, fire or exposure, call toll free 1-800-424-9300.

GENERAL INFORMATION

Phos-K-Mg LC is a formulated treatment for phosphorus and magnesium deficiency in potatoes, fruit, and other crops. This product may be applied using a variety of agricultural application equipment and techniques. This product is recommended for use as a supplement to a regular fertilizer program only. It is not intended nor implied to be a substitute for sound soil fertilization and good conventional cultural practices. 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.

Ground Applications: This product may be applied by conventional ground rig in volumes ranging from full dilute to concentrate.

Fertigation: All crops: Use at a dilution of 0.02% v/v (1/2 pint per 250 gallons of water). This will produce a solution containing 86 mg/l phosphate. Alternatively: All Crops: 1 to 3 gallons per application as required. Repeat every 7 to 10 days when necessary. Water rate: standard grower practice. Or: Use at 2.5 to 3 quarts per 1,200 yards squared. Repeat at 7- to 14-day intervals as necessary.

Drip Irrigation: This product may be injected into drip irrigation systems.

FOLIAR DOSE RATE AND TIMINGS

Alfalfa: 2 quarts/acre when sufficient leaf cover to intercept spray. Then 2 quarts/acre one week after every cut. Water rate: 20 gallons/acre.

Apples: 4 to 6 applications of 1 to 2 quarts/acre from end of flowering. Repeat applications at 10- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Apricots: 2 to 5 applications of 1 to 2 quarts/acre from petal fall. Repeat applications at 10- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Beans: 1 to 2 quarts/acre when crop is 6" tall. Repeat if necessary at 10- to 14-day intervals. Water rate: 3 to 20 gallons/acre.

Blueberries: 1 to 2 quarts/acre 10 days after petal fall has finished. Water rate: 100 gallons/acre.

Broccoli: 1 to 2 quarts/acre applied soon after transplanting. Water rate: 3 to 20 gallons/acre.

Brussels Sprouts: 1 to 2 quarts/acre applied soon after transplanting. Water rate: 3 to 20 gallons/acre.

Cabbage: 1 to 2 quarts/acre applied soon after transplanting. Water rate: 3 to 20 gallons/acre.

Calabrese: 1 to 2 quarts/acre applied soon after transplanting. 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, 1 to 2 quarts/acre at 4- to 6-leaf stage and 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 6" tall. For moderate to severe deficiency repeat applications at 10- to 14-day intervals. Water rate: 20 gallons/acre.

Cauliflower: 1 to 2 quarts/acre applied soon after transplanting. 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 gallons/acre.

Cereals: 1 to 2 quarts/acre at tillering. Repeat at 10- to 14-day intervals, if necessary. Also apply from ear emergence until the end of flowering (Zadok's G.S. 51 to 69). Water rate: 5 to 20 gallons/acre.

Cherries: 2 to 5 applications of 1 to 2 quarts/acre from petal fall. Repeat applications at 10- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Citrus: 1 to 2 quarts/acre applied at 10- to 14-day intervals following fruit set. Water rate: 50 to 150 gallons/acre.

Cole Crops: 1 to 2 quarts/acre applied soon after transplanting. Water rate: 3 to 20 gallons/acre.

Corn: 1 to 2 quarts/acre at 4- to 8-leaf stage. Repeat at 10- to 14-day intervals if necessary. Water rate: 3 to 20 gallons/acre.

Cotton: 1 to 2 quarts/acre at the start of flowering. Water rate: 5 to 20 gallons/acre.

Cranberries: 1 to 2 quarts/acre applied at full fruit set, with repeat applications at 14-day intervals. Water rate: 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 to 50 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: 1 to 2 quarts/acre at the 4- to 6-leaf stage. Repeat as necessary at 10- to 14-day intervals. Water rate: 3 to 20 gallons/acre.

Lettuce (Field Grown): 1 to 2 quarts/acre. Apply 10- to 14-days after transplanting or emergence. One or two repeat applications may be made at 10- to 14-day intervals. Water rate: 50 gallons/acre.

Melons (Field Grown): 1 to 2 quarts/acre at start of flowering. Repeat at 10- to 14-day intervals if necessary. Water rate: 50 gallons/acre.

Nectarines: 2 to 5 applications of 1 to 2 quarts/acre from petal fall. Repeat applications at 7- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Nursery/Ornamentals: 2 gallons in 100 gallons water (1.875% 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. Maximum water rate: 20 gallons/acre.

Onions: 1 to 2 quarts/acre. Apply when the foliage is 6" tall, with a second application 10- to 14-days later if necessary. Water rate: 3 to 20 gallons/acre.

Ornamentals: 1.875 gallons in 100 gallons water (1.875% v/v) as soon as there is sufficient leaf area to obtain thorough coverage. Repeat at 10- to 14-day intervals as necessary. Avoid application during flowering. Spray a maximum of three applications per crop per annum. Maximum water rate: 20 gallons/acre.

Peaches: 2 to 5 applications of 1 to 2 quarts/acre from petal fall. Repeat applications at 7- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Pears: 4 to 6 applications of 1 to 2 quarts/acre from end of flowering. Repeat applications at 10- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Peas: 1 to 2 applications of 1 to 2 quarts/acre when the crop is 4 to 6" tall. Allow 10 to 14-days between applications. Water rate: 3 to 20 gallons/acre.

Peppers (Field Grown): 1 pint in 45 gallons before transplanting. Water rate: 100 gallons/acre maximum.

Plums: 2 to 5 applications of 1 to 2 quarts/acre from petal fall. Repeat applications at 7- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Potatoes: To increase tuber size: A minimum of 2 applications of 1 to 2 quarts/acre during tuber bulking (as soon as first formed tuber are 1/2" in diameter) and following petiole analysis during tuber bulking. Allow 10- to 14-days between applications. Water rate: 5 to 20 gallons/acre.

Rice: 1 to 2 quarts/acre applied at tillering and again at panicle initiation. Repeat 7 to 10 days later if necessary. Water rate: 3 to 40 gallons/acre.

Sorghum/Milo: 1 to 2 quarts/acre at 4- to 8-leaf stage. Repeat at 10- to 14-day intervals if necessary. Water rate: 3 to 20 gallons/acre.

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

Spinach: 1 to 2 quarts/acre at the 4- to 6-leaf stage. Water rate: 20 gallons/acre.

Squash (Field Grown): 1 to 2 quarts/acre at 4 leaf stage. Repeat, if necessary, 10- to 14-days later. Water rate: 20 to 50 gallons/acre.

Strawberries (Field Grown): Non-everbearing varieties: 3 applications of 1 to 2 quarts/acre from start of flowering. Repeat applications 7- to 10-day intervals.

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Everbearing varieties: 6 applications of 1 to 2 quarts/acre. Do not apply successive applications at intervals of less than 10- to 14-days. Water rate: 30 to 50 gallons/acre.

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

Sweet Potatoes: 1 to 2 quarts/acre one week after 100% emergence or transplanting. Repeat applications during tuber bulking at 10- to 14-day intervals. Also, apply at the same rate following recommendation from analysis. Water rate: 20 gallons/acre.

Tobacco: Two 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. Apply at the 4- to 6-leaf stage with repeat applications at 10- to 14-day intervals if necessary. Water rate: 3 to 50 gallons/acre.

Turf: 1.5 fl. oz./1,000 sq. ft. as soon as growth commences in spring. Repeat sprays at 10- to 14-day intervals as necessary. Water rate: 0.5 gallon/1,000 sq. ft.

Vines: 1 to 2 quarts/acre at flower buds separated, fruit set, grape expansion and early veraison/one month before harvest. Water rate: 20 gallons/acre.

Watermelons (Field Grown): 1 to 2 quarts/acre at the 4- to 6-leaf stage. Repeat at 10- to 14-day intervals. Water rate: 20 to 50 gallons/acre.

Zucchini (Field Grown): 1 to 2 quarts/acre at the 4- to 6-leaf stage. Repeat at 10- to 14-day intervals. Water rate: 20 to 50 gallons/acre.

Buffering agent:
Use 4 oz. to 3 pints per 100 gallons as required to lower pH and offset the effect of alkaline water on insecticides, growth regulators and foliar nutrients.

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 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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