



# Phoscal-Zin FL

## 4-15-0

Foliar Nutritional Liquid Flowable

A formulated product for the treatment of phosphorus, calcium and zinc deficiencies by foliar application.

### GUARANTEED ANALYSIS

Total Nitrogen (N) .....	4.00%
4.00% Urea Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	15.00%
Calcium (Ca) .....	13.00%
Zinc (Zn) .....	7.70%

Derived from urea, calcium phosphate, calcium carbonate and zinc phosphate.  
Nutrient content per gallon: 2 lb. P<sub>2</sub>O<sub>5</sub>, 1 lb. 11 oz. Ca, 1 lb. Zn

**KEEP OUT OF REACH OF CHILDREN**

### WARNING

Very toxic to aquatic life  
Toxic to aquatic life with long lasting effects  
May be harmful if swallowed  
May be harmful in contact with skin  
Causes serious eye irritation  
Causes mild skin irritation  
May be harmful if inhaled



WT. PER GAL.: 13.28 lbs (6.02 kg)  
NET CONTENTS: □ 2.5 gals (9.46 L)  
□ 250 gals (946.35 L)

YSN 041315/0815

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.

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May be harmful if swallowed. May be harmful in contact with skin. Causes serious eye irritation. Causes mild skin irritation. 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.

California Prop 65: This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

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"> <li>Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR HAIR:	<ul style="list-style-type: none"> <li>Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>Get medical attention if irritation develops or persists.</li> <li>Wash contaminated clothing before reuse.</li> </ul>
IF SWALLOWED:	<ul style="list-style-type: none"> <li>Call a POISON CENTER or doctor immediately.</li> <li>Rinse mouth. Do NOT induce vomiting.</li> <li>Do not give anything by mouth to an unconscious person.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
IF INHALED:	<ul style="list-style-type: none"> <li>Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell.</li> <li>If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a POISON CENTER or doctor for treatment advice.</li> </ul>

**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

PhosCal-Zin FL is designed to accumulate calcium, zinc and phosphorus in crops to the benefit of their nutrition.

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.

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.

In Virginia, this lawn/turf fertilizer contains phosphorous and is only for nonagricultural use on (i) turf during its first growing season, (ii) on turf areas being repaired or renovated, and (iii) on turf where a soil test performed within the last 3 years indicates a phosphorous deficiency. This fertilizer is not for the routine maintenance of turf. This fertilizer contains phosphorous and may not be used on turf in the state of Maryland.

### DIRECTIONS FOR USE

Shake the container thoroughly before use.

#### FOLIAR DOSE RATE AND TIMINGS

- Alfalfa: 1 to 2 quarts/acre when sufficient cover to intercept spray, and also at flower bud formation. Water rate: 3 to 20 gallons/acre.
- Apples: 2 to 4 quarts/acre commencing at petal fall with repeat applications at 10- to 14-day intervals. On russet sensitive varieties delay applications until 6 weeks after petal fall. Water rate: 50 gallons/acre.
- Apricots: 2 to 4 quarts/acre applied 2 to 5 times. First application at pink bud. Thereafter at petal fall with repeat applications at 7- to 14-day intervals. Water rate: 50 to 100 gallons/acre.
- Beans: 1 to 2 quarts/acre before flowering. Water rate: 25 gallons/acre.
- Blueberries: 1 to 4 quarts/acre to new leaf growth in the spring. Water rate: 50 gallons/acre.
- Broccoli: 2 to 4 quarts/acre applied 2 or 3 times at stem extension/head development with 10- to 14-day intervals. Water rate: 50 gallons per acre.
- Brussels Sprouts: 2 to 4 quarts/acre applied 2 or 3 times at stem extension/head development with 10- to 14-day intervals. Water rate: 50 gallons per acre.

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

Canola: 2 to 4 quarts/acre applied 2 to 3 times at 4- to 6-leaf stage, onset of stem extension, and 10 to 14 days later. Water rate: 25 gallons/acre.

Cabbage: 2 to 4 quarts/acre applied 2 or 3 times at stem extension/head development with 10- to 14-day intervals. Water rate: 50 gallons per acre.

Calabrese: 2 to 4 quarts/acre applied 2 or 3 times at stem extension/head development with 10- to 14-day intervals. Water rate: 50 gallons per acre.

Carrots: 1 to 2 quarts/acre applied 2 or 3 times when crop is 6 inches tall and at 7- to 10-day intervals. Water rate: 25 gallons/acre.

Cauliflower: 2 to 4 quarts/acre applied 2 or 3 times at stem extension/head development with 10- to 14-day intervals. Water rate: 50 gallons per acre.

Celery: 1 to 2 quarts/acre at the 4- to 6-leaf stage. Repeat 10 to 14 days later if necessary. Water rate: 3 to 50 gallons/acre.

Cereals: 2 to 4 quarts/acre at mid-tillering to second node detectable (Zadok's G.S. 25 to 32). Water rate: 25 gallons/acre.

Cherries: 2 to 4 quarts/acre applied 2 to 5 times. First application at pink bud. Thereafter at petal fall with repeat applications at 7- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Citrus: 2 to 4 quarts/acre applied 2 to 3 times starting at fruit set with repeat applications at 10- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Cole Crops: 2 to 4 quarts/acre applied 2 or 3 times at stem extension/head development with 10- to 14-day intervals. Water rate: 50 gallons per acre.

Conifers: 1 gallon/acre at the start of new season leaf production, and again in early autumn. Water rate: 3 to 50 gallons/acre.

Corn: 1 to 2 quarts/acre at 4- to 8-leaf stage. Water rate: 25 gallons/acre.

Cotton: 1 to 2 quarts/acre from 10% flowering. Repeat if necessary at 10- to 14-day intervals. Water rate: 30 gallons/acre.

Cranberry: 1 to 2 quarts/acre applied at early bloom. Water rate: 3 to 50 gallons/acre.

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

Dry Bean: 2 quarts per acre applied before flowering. Water rate: 3 to 25 gallons/acre.

Fir Trees: 2 to 4 quarts/acre at the start of new season leaf production and again in early autumn. Water rate: 3 to 50 gallons/acre.

Garlic: 1 to 2 quarts/acre at the 6 inches stage, and again 10 to 14 days later. Water rate: 3 to 20 gallons/acre.

Ginseng: 2 to 4 quarts/acre applied to early season regrowth. Repeat if necessary 10 to 14 days later. Water rate: 50 gallons/acre.

Groundnuts: 1 to 2 quarts/acre at the 4- to 6-leaf stage. Consider a second application 10 to 14 days later. Water rate: 3 to 20 gallons/acre

Lettuce (Field Grown): 1 to 2 quarts/acre applied 2 or 3 times commencing 10 to 14 days after transplanting or emergence with 7- to 10-day intervals between applications. Water rate: 50 gallons/acre.

Nectarines: 2 to 4 quarts/acre applied 2 to 5 times. First application at pink bud. Thereafter at petal fall with repeat applications at 7- to 14-day intervals. Water rate: 50 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): 2 to 4 quarts/acre 7 days after petal fall. Repeat if necessary 10 to 14 days later. Water rate: 50 gallons/acre.

Onions: 1 to 2 quarts/acre applied once or twice during bulb filling with a 10- to 14-day interval between sprays. Water rate: 25 gallons/acre.

Peaches: 2 to 4 quarts/acre applied 2 to 5 times. First application at pink bud. Thereafter at petal fall with repeat applications at 7- to 14-day intervals. Water rate: 50 to 100 gallons/acre.

Pears: 2 to 4 quarts/acre commencing at petal fall with repeat applications at 10- to 14-day intervals. On russet sensitive varieties delay applications until 6 weeks after petal fall. Water rate: 50 gallons/acre.

Peas: 1 to 2 quarts/acre before flowering. Water rate: 25 gallons/acre.

Peppers (Field Grown): 1 to 2 quarts/acre applied 2 to 4 times commencing from flowering on second truss. Repeat at 10- to 14-day intervals. Water rate: 3 to 50 gallons/acre.

Plums: 2 to 4 quarts/acre applied 2 to 5 times. First application at pink bud. Thereafter at petal fall with repeat applications at 7- to 14-day intervals. Water rate: 50 to 100 gallons/acre .

Potatoes: 2 to 4 quarts/acre 1 week after 100% crop emergence. Repeat as necessary at 10- to 14-day intervals. Water rate: 3 to 25 gallons/acre.

Raspberry: 2 to 4 quarts/acre to new leaf growth in the spring. Water rate: 50 gallons/acre.

Soybeans: 1 to 2 quarts/acre before flowering. Water rate: 3 to 25 gallons/acre.

Strawberries (Field Grown): 2 to 4 quarts/acre to new leaf growth in the spring. Water rate: 3 to 50 gallons/acre.

Sugar Beet: 1 to 2 quarts/acre at 4- to 6-leaf stage. Repeat if necessary at 10- to 14-day intervals. Water rate: 3 to 25 gallons/acre.

Sugar Cane: 2 to 4 quarts/acre when the plants are 12 inches tall and again 10 to 14 days later. Water rate: 3 to 50 gallons/acre.

Sunflower: 1 to 2 quarts/acre at the 3- to 4-leaf stage. Water rate: 25 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.

Tomatoes (Field Grown): 1 to 2 quarts/acre applied 2 to 4 times commencing from flowering on second truss. Repeat at 10- to 14-day intervals. Water rate: 3 to 50 gallons/acre.

Turf: 1.5 to 3 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 gallons/1,000 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: 2 to 4 quarts/acre when new shoots are at the 4- to 6-leaf stage. Repeat if necessary at 10- to 14-day intervals. Water rate: 50 gallons/acre.

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#### 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](http://www.tankmix.com/elemax) for important information or do a jar test.

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#### 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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