



Soil Phosphite

0-40-0

A Soil Nutrient

THIS PRODUCT IS NOT FOR SALE OR USE IN CALIFORNIA, GEORGIA, IDAHO, ILLINOIS, INDIANA, KENTUCKY, MICHIGAN, MINNESOTA, NEW MEXICO, NORTH CAROLINA, OKLAHOMA, OREGON, PENNSYLVANIA, TEXAS OR WASHINGTON STATE.

GUARANTEED ANALYSIS

Available Phosphoric Acid (P₂O₅) (AOAC Method 960.02) 40.00%

Derived from phosphorous acid.

KEEP OUT OF REACH OF CHILDREN

DANGER

Harmful if swallowed
 May be harmful in contact with skin
 Causes severe skin burns and eye damage
 May be harmful if inhaled
 May cause respiratory irritation
 May be corrosive to metals



SN 042915

NET CONTENTS:

- 2.5 gal (9.46 L) 55 gal (208.19 L)
- Net Wt: 26.35 lbs (11.95 kg) Net Wt: 579.70 lbs (262.95 kg)
- 5 gal (18.93 L) 250 gal (946.25 L)
- Net Wt: 52.70 lbs (23.90 kg) Net Wt: 2,635.00 lbs (1,195.24 kg)
- Bulk _____

Wt. Per Gal. 10.54 lbs (4.78 kg)

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.

CORROSIVE LIQUID, n.o.s. (CONTAINS PHOSPHOROUS ACID), 8, UN1760, PGIII F224

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

A formulated product for the treatment of Phosphate deficiency by soil application.

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.

Harmful if swallowed. May be harmful in contact with skin. Causes severe skin burns and eye damage. May be harmful if inhaled. May cause respiratory irritation. May be corrosive to metals. 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:	<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 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 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.

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. Store away from bases (such as caustic soda), chlorates, and nitrates. 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

Soil Phosphite is formulated to correct Phosphate deficiency in a wide range of vegetable crops, ornamentals, bedding plants and nursery crops. Applications of **Soil Phosphite** can be beneficial to plant growth, including root development, flowering and transplant establishment. This product and other phosphorous acid products are intended to be used as a supplement to a well balanced fertilizer treatment program. This product may be applied using a variety of agricultural application equipment and techniques. It is not intended to be a substitute for sound soil fertilization and conventional cultural practices.

As a soil application to annual crops, a lesser response from the initial crop, with a corresponding superior response from succeeding crops, may be observed. In addition, placement close to seeds or root zones may be injurious to crops. The effect may be aggravated by a soil pH below 6.5. 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.

It is not recommended to use additional surfactants and/or adjuvants with this product.

DIRECTIONS FOR USE

Precaution: **Soil Phosphite** is a highly concentrated material. Exercise precautions to prevent potential root or seed damage from improper placement, or plant media pH changes, irrigation system or injector system damage. If applying **Soil Phosphite** on its own or in combination with other materials, a compatibility test is recommended to avoid potential incompatibilities. Prior to the addition of **Soil Phosphite**, the user or application advisor must have experience with the combination or must have conducted a phytotoxicity trial. **Do not mix this product with carbonates or bicarbonates. Do not mix with fixed copper or copper based fungicides if the pH of the solution is below 6 pH.** Use sufficient water to ensure thorough coverage. **It is not recommended to use additional surfactants and/or adjuvants with this product.**

SOIL APPLICATION

VEGETABLE CROPS

Suggested Rates:

Beans: 2 pints to 4 pints/acre per application. First application post-transplanting, subsequent applications at 10- to 14-day intervals as needed. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (sidedress) or a directed spray. A 1-2 inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

Cole Crops (Broccoli, Brussels Sprouts, Cabbage, Calabrese, Cauliflower): 1 pint to 4 pints/acre per application. First application post-transplanting, thinning,

subsequent applications at 10- to 14-day intervals as needed. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (sidedress) or a directed spray. A two (2) inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

Lettuce, Spinach, Other Leafy Vegetables: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as needed. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (sidedress) or a directed spray. A two (2) inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

Cucurbits – Cucumbers, Melons: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (sidedress) or a directed spray. A two (2) inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

Peas: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (sidedress) or a directed spray. A two (2) inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

Potatoes, Root, Bulb or Tuber Crops: 1 pint to 4 pints/acre per application. First application post 100% emergence, subsequent applications at 10- to 14-day intervals as required. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (sidedress) or a directed spray. A two (2) inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

Strawberries: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (side-dress) or a directed spray. A 2 inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

Sugarbeets: 2 pints to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as needed. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (side-dress) or a directed spray. A two (2) inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

Tomatoes & Peppers: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as needed. **Soil Phosphite** should be trickled down a tube along the back edge of a cultivator tine (sidedress) or a directed spray. A two (2) inch separation must be maintained between the area of soil treated with **Soil Phosphite** and the seed or seedling root.

APPLICATION THROUGH IRRIGATION

VEGETABLE CROPS

Suggested Rates:

Beans: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Cole Crops (Broccoli, Brussels Sprouts, Cabbage, Calabrese, Cauliflower): 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Lettuce, Spinach, Other Leafy Vegetables: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Cucurbits – Cucumbers, Melons: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Peas: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Potatoes, Root, Bulb or Tuber Crops: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Strawberries: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Sugarbeets: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Tomatoes & Peppers: 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

APPLICATION THROUGH IRRIGATION

PERMANENT CROPS

Suggested Rates:

Apples, Pears, (Pome Fruit): 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Almonds: 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Avocado: 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Caneberries, Blackberries, Raspberries & Others: 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Citrus: 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Grapes: 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Kiwi Fruit: 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Olives: 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Plums, Peach (Stone Fruit): 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

Walnuts & Other Nut Crops: 2 pints to 4 pints/acre, first application with the first spring irrigation, subsequent treatments at three-month intervals or as needed. *Do not exceed 2 gallons per 100 gallons water or 2% by volume per application.*

APPLICATION THROUGH DRENCH, SOIL INCORPORATION AND TRANSPLANT

DIP TREATMENT

ORNAMENTALS, BEDDING PLANTS, NURSERY CROPS

Drench: Mix 2.5-5 oz. per 100 gallons of water and apply solution at a range of 24-32 oz. per sq. ft. Repeat as necessary to maintain plant vigor.

Soil Incorporation: Uniformly mix 3-5 oz. of product per cubic yard of soil media. For best results, mix just prior to planting.

Transplant Dip Treatment: Mix 16 oz. per 100 gallons of water and immerse plant roots just prior to planting.

MIXING INSTRUCTIONS

Prior to any fertilizer or pesticide application all spray mixing and application equipment must be cleaned. A tank cleaner such as **WipeOut®** is recommended. Carefully observe all cleaning directions on the pesticide label. Fill the spray or mix tank one-half full of water and begin agitation. Add pesticides and/or fertilizers as directed by labeling or in the following sequence:

1. Dry flowables or water dispersible granules
2. Wettable powders
3. Flowables
4. Emulsifiable concentrates
5. Water based solutions
6. Compatibility agents
7. Micronutrients and Fertilizers
8. Spray adjuvants

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,

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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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