



# Foliar Phosphite

## 4-0-20

THIS PRODUCT IS ONLY FOR SALE AND USE IN NEW MEXICO AND TEXAS.

### GUARANTEED ANALYSIS

Total Nitrogen (N) .....	4.00%
4.00% Urea Nitrogen .....	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	0.00%
30% Total Phosphorus (as P) .....	
Soluble Potash (K <sub>2</sub> O) .....	20.00%

Derived from urea, potassium hydroxide and phosphorous acid.

KEEP OUT OF REACH OF CHILDREN

## WARNING

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



NET CONTENTS:

TX SN 051215/0516G

- |  |  |
|--|--|
| <input type="checkbox"/> 2.5 gal. (9.46 liters)  | <input type="checkbox"/> 5 gal. (18.93 liters) |
| Net Wt.: 30.35 lbs (13.76 kg)                    | Net Wt.: 60.70 lbs. (27.53 kg)                 |
| <input type="checkbox"/> 55 gal. (208.19 liters) | <input type="checkbox"/> Bulk                  |
| Net Wt.: 666.70 lbs. (302.87 kg)                 | WEIGHT PER GALLON: 12.14 lbs. (5.51 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.

### MANUFACTURED FOR

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

A formulated product for the treatment of Nitrogen, Phosphate and Potash deficiencies by foliar and soil applications.

### 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. Causes serious eye irritation. Causes 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.

**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. 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 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>
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>
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
<p><b>Foliar Phosphite 4-0-20</b> is a formulated treatment for Nitrogen, Phosphate and Potash deficiencies in a wide range of vegetable, permanent and ornamental crops and in turf. Applications of <b>Foliar Phosphite 4-0-20</b> can be beneficial to plant growth, including root development, flowering, and transplant establishment. This product may be applied through various application equipment and techniques, including air, ground and conventional sprayers. This product and other phosphorous acid products are intended to be used as a supplement to a well balanced fertilizer treatment program. It is not intended to be a substitute for sound soil fertilization and conventional cultural practices. Thorough coverage of foliage is necessary for best results when used as a foliar treatment.</p> <p>Avoid foliar application under extremes of climate, e.g. rapid drying conditions, extremely slow drying conditions, frost, rain, or when frost or rain are anticipated. 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 Chemical Company representative or authorized Helena dealer.</p> <p><b>It is not recommended to use additional surfactants and/or adjuvants with this product.</b></p>

DIRECTIONS FOR USE
<p><b>Precaution:</b> <b>Foliar Phosphite 4-0-20</b> is a highly concentrated material. Exercise precautions to prevent potential root or foliar injury (including burning), plant media pH changes, irrigation system or injector system damage. If applying <b>Foliar Phosphite 4-0-20</b> in combination with other materials, a compatibility test is recommended to avoid potential incompatibilities. Prior to the addition of <b>Foliar Phosphite 4-0-20</b> to a spray mix, the user or application advisor must have experience with the combination or must have conducted a phytotoxicity trial. <b>Do not mix with fixed copper or copper based fungicides if the pH of the spray solution is below 6 pH.</b> Use sufficient water to ensure thorough coverage.</p> <p><b>It is not recommended to use additional surfactants and/or adjuvants with this product.</b></p>

GROUND APPLICATION
VEGETABLE CROPS
<p><b>Suggested Rates:</b></p> <p><b>Beans:</b> 1 pint to 4 pints/acre per application. First application after thinning or second true leaf stage, subsequent applications at 10- to 14-day intervals as required. A 2% solution of <b>Foliar Phosphite 4-0-20</b> by spray volume is the maximum permissible rate</p>

for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Cole Crops (Broccoli, Brussels Sprouts, Cabbage, Calabrese, Cauliflower):** 1 pint to 4 pints/acre per application. First application post-transplanting, thinning, or second true leaf stage, subsequent applications at 10- to 14-day intervals as required. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**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. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**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. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**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. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**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. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**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. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Sugarbeets:** 1 pint to 4 pints/acre. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Tomatoes, Peppers, Eggplant:** 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

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#### GROUND APPLICATION

##### FIELD CROPS

###### Suggested Rates:

**Corn:** 1 to 4 pints per acre.

**Cotton:** 1 to 4 pints per acre.

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#### GROUND APPLICATION

##### PERMANENT CROPS

###### Suggested Rates:

**Apples, Pears (Pome Fruit):** 1 pint to 4 pints/acre, first application at green tip, subsequent treatments at 30-day intervals or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Almonds:** 1 pint to 4 pints/acre, first application at green tip, subsequent treatments at 30-day intervals up to nut fill or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Avocado:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Caneberries, Blackberries, Raspberries & Others:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Citrus:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Grapes:** 1 pint to 4 pints/acre. **Table Grapes:** Apply first application at bloom, subsequent applications at bunch pre-closing, veraison and two to three weeks prior to

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harvest, or as needed. **Wine Grapes:** Apply first application at approximately 5% bloom, subsequent applications at bunch pre-closing, veraison and two to three weeks prior to harvest, or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Hops:** 2 pints to 4 pints/acre. First application at 1 inch to 4 inches of shoot growth, subsequent applications at 8 inches to 10 inches of shoot growth and 5 feet to 6 feet after trellising, and during bloom, or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Kiwi Fruit:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Olives:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Plums, Peach (Stone Fruit):** 1 pint to 4 pints/acre, first application at green tip or pink bud, subsequent treatments at fruit set, thinning, and two to three weeks prior to harvest, or as needed. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

**Walnuts & Other Nut Crops:** 2 pints to 4 pints/acre. First application at green tip, subsequent treatments at 30-day intervals or as required. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar application, or for each 1 pint/acre **Foliar Phosphite 4-0-20** add 6-¼ gallons water per acre.

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#### AERIAL APPLICATION

##### 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. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**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. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**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. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**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. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**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. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**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. Dilute 1 pint to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**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. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**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. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Tomatoes, Peppers, Eggplant:** 1 pint to 4 pints/acre per application. First application post-transplanting or thinning, subsequent applications at 10- to 14-day intervals as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

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#### AERIAL APPLICATION

##### FIELD CROPS

###### Suggested Rates:

**Corn:** 1 to 4 pints per acre.

**Cotton:** 1 to 4 pints per acre.

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#### AERIAL APPLICATION

##### PERMANENT CROPS

###### Suggested Rates:

**Apples, Pears (Pome Fruit):** 1 pint to 4 pints/acre, first application at green tip, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Almonds:** 1 pint to 4 pints/acre, first application at green tip, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Avocado:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Caneberries, Blackberries, Raspberries & Others:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Citrus:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Grapes:** 1 pint to 4 pints/acre. **Table Grapes:** Apply first application at bloom, subsequent applications at bunch pre-closing, veraison and two to three weeks prior to harvest, or as needed. **Wine Grapes:** Apply first application at approximately 5% bloom, subsequent applications at bunch pre-closing, veraison and two to three weeks prior to harvest, or as needed. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Hops:** 2 pints to 4 pints/acre. First application at 1 inch to 4 inches of shoot growth, subsequent applications at 8 inches to 10 inches of shoot growth and 5 feet to 6 feet after trellising, and during bloom, or as needed. Dilute 2 pints to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Kiwi Fruit:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Olives:** 1 pint to 4 pints/acre, first application at pre-bloom, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Plums, Peach (Stone Fruit):** 1 pint to 4 pints/acre, first application at green tip or pink bud, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

**Walnuts & Other Nut Crops:** 1 pint to 4 pints/acre, first application at green tip, subsequent treatments at 30-day intervals or as required. Dilute 1 to 4 pints **Foliar Phosphite 4-0-20** in 10 to 20 gallons water.

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#### APPLICATION THROUGH IRRIGATION VEGETABLE CROPS

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##### 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** per 100 gallons water or 2% by volume per application.

**Tomatoes, Peppers, Eggplant:** 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 **Foliar Phosphite 4-0-20** per 100 gallons water or 2% by volume per application.

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#### APPLICATION THROUGH IRRIGATION PERMANENT CROPS

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##### 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 or as needed. *Do not exceed* 2 gallons **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** 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 **Foliar Phosphite 4-0-20** per 100 gallons water or 2% by volume per application.

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#### APPLICATION TO TURF, ORNAMENTALS, NURSERY, COMMERCIAL LANDSCAPE AND GOLF COURSES

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**Foliar Phosphite 4-0-20** may be applied through various application equipment including air, ground, and conventional sprayers at 10 to 500 gallons of water per acre. For each pint of **Foliar Phosphite 4-0-20**, use 6-¾ gallons of water per 1,000 sq. ft. A 2% solution of **Foliar Phosphite 4-0-20** by spray volume is the maximum permissible rate for foliar applications.

##### Suggested Rates:

**Evergreen Species (including trees, shrubs, foliage plants)**

**Propagule:** Prior to planting, temporarily immerse cutting(s) into a 0.5% v/v solution (6.4 oz. per 10 gal. water).

**Transplanting:** Prior to transplanting apply as a foliar spray using a 0.5% v/v solution or temporarily immerse the transplant tray in a 0.5% v/v solution (6.4 oz. per 10 gal. water).

**Plant Health Program:** Apply as a foliar application on a 10-14 day schedule or as necessary to maintain plant vigor using a 0.5% v/v solution (6.4 oz. per 10 gal. water).

**Deciduous Species (including trees, shrubs, foliage plants)**

**Propagule:** Prior to planting, temporarily immerse cutting(s) into a 0.5% v/v solution (6.4 oz. per 10 gal. water).

**Transplanting:** Prior to transplanting, apply as a foliar spray using a 0.5% v/v solution or temporarily immerse the transplant tray in a 0.5% solution (6.4 oz. per 10 gal. water).

**Plant Health Program:** Apply as a foliar application on a 10-14 day schedule or as necessary to maintain plant vigor using a 0.5% v/v solution (6.4 oz. per 10 gal. water).

**General Application Timing:** First application at bud break, continue plant vigor program until plant senescence. Do not apply during dormancy.

**Perennial and Annual Species (including bedding plants, annuals and perennial plantings)**

**Bedding Plants:**

Apply as a foliar application at the fourth true leaf stage. Continue applications at 10-14 day intervals or as necessary to maintain plant vigor.

**Transplanting:** Prior to transplanting, apply as a foliar spray using a 0.5% v/v solution or temporarily immerse the transplant tray in a 0.5% solution (6.4 oz. per 10 gal. water).

**Plant Health Program:** Apply as a foliar application on a 10-14 day schedule or as necessary to maintain plant vigor using a 0.5% v/v solution (6.4 oz. per 10 gal. water).

#### Cut Flowers:

For Propagule, Transplanting, and additional Plant Health Programs, refer to programs listed for Evergreen or Deciduous Species.

**Plant Health Program:** Two to three days prior to harvest a 0.5% v/v solution of **Foliar Phosphite 4-0-20** may be made, or immerse the cuttings after harvest in 0.5% v/v solution prior to shipping (6.4 oz. per 10 gal. water).

#### Turf

Warm and cool season turf including commercial landscape, golf-course, lawn care and sod farms growing the following: Bent grass, Blue grass, Rye grass, Zoysia grass, Bermuda grass, Fescue grass, St. Augustine grass, Centipede grass, and *Poa annua*.

**Rate:** Use 5 oz.-10 oz. in a minimum of 1.75-2.00 gallons total spray volume per 1,000 sq. ft. every 14-21 days.

**Summer Fertilizer Program:** **Foliar Phosphite 4-0-20** can be used as a foliar potassium fertilizer treatment for Turf to supplement a well balanced fertilizer program. This can be beneficial during certain times of the season when plants cannot uptake the potassium in the soil.

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#### 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

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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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