

83472-3

8/4/2010

10948



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 4, 2010

Plant Protectants, LLC  
c/o James B. Messina  
Exponent  
1150 Connecticut Avenue, NW  
Suite 1100  
Washington, D.C. 20036

RE: Product Name: Fungi-Phite DF  
EPA Reg. No.: 83472-3  
Application for Label Notification dated July 19, 2010 to add avoidance of  
undesirable copper phytotoxicity statement to directions for use.

Dear Mr. Messina:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under PR Notice 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PR Notice 98-10 and it has been determined that the action(s) requested falls within the scope of PR Notice 98-10. Our records have been duly noted, and the label submitted with this application has been stamped "Notification Accepted" and will be placed accordingly in our records.

If you have any questions concerning this action, please feel free to contact Mr. Colin Walsh at (703) 308-0298 or via email at [walsh.colin@epa.gov](mailto:walsh.colin@epa.gov).

Sincerely,

*Linda A. Hollis*

Linda A. Hollis, Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention  
Division (7511P)

2048

Please read instructions on reverse before completing form.

Form Approved OMB No. 2070-0060. Approval expires 05-31-98

<b>EPA</b> United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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**Application for Pesticide - Section I**

1. Company/Product Number 83472-3	2. EPA Product Manager Leonard Cole	3. Proposed Classification  <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Fungi-Phite DF	PM# <u>91</u> BPPD	
5. Name and Address of Applicant (Include ZIP Code) Plant Protectants, LLC 34801 Road 132 Visalia, CA 93292  <input type="checkbox"/> Check if this is a new address	6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	

**Section II**

<input type="checkbox"/> Amendment - Explain below.  <input type="checkbox"/> Resubmission in response to Agency letter dated XX-XX-XX  <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated XX-XX-XX  <input type="checkbox"/> "Me Too" Application  <input type="checkbox"/> Other - Explain below.
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**Notification Accepted**

Explanation: Use additional page(s) if necessary. (For section I and Section II.)  
Submission of a label notification pursuant to EPA PR 98-10, including a supplemental label

**Date:** AUG 04 2010

**Reviewer:** C. Walsh

**Section III**

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No  If "Yes" Unit Packaging wgt.    No. per Container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No  If "Yes" Package wgt.    No. per Container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) Plastic Bag
*Certification must be submitted			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/> On Can <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			

**Section IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name James Messina	Title Authorized Representative	Telephone No. (Include Area Code) 262-772-4932
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature BY:	3. Title Authorized Representative	
4. Typed Name: James Messina	5. Date: July 19, 2010	

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91

Exponent®

Exponent  
1150 Connecticut Avenue, NW  
Suite 1100  
Washington, DC 20036

telephone 202-772-4900  
facsimile 202-772-4979  
www.exponent.com

July 19, 2010

Leonard Cole  
Regulatory Action Leader  
Biochemical Pesticides Branch (NOTIF)  
Biopesticides and Pollution Prevention Division  
Office of Pesticide Programs (7511P)  
U.S. Environmental Protection Agency  
One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202

**Subject: Notification for Fungi-Phite DF (EPA Reg. No. 83472-3)**

Dear Mr. Cole:

On behalf of my client Plant Protectants, LLC (EPA Company Number 83472), Exponent is submitting a label notification for the product Fungi-Phite DF. Please find enclosed the following documentation in support of this submission:

- EPA Application Form 8570-1;
- Three copies of the revised label.

The only change to the product label is the addition of the following language on pages 7 and 36:

“To avoid undesirable copper phytotoxicity, do not make foliar applications to plants treated with copper-based compounds at less than 20 day intervals unless instructed to do so by your crop consultant. Allow foliage to dry completely after application.”

No other changes have been made to the label, which was EPA stamped approved on July 1, 2010.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

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# MASTER LABEL

Notification Accepted

**FUNGI-PHITE® DF**  
Systemic Fungicide

Date: **AUG 04 2010**

Reviewer: *C. Walsh*

**Sublabel A: Agricultural Uses**

For use on Avocado, Bananas and Plantains, Berry Crops, Bulb Vegetable Crops, Brassica Crops, Cereal Grains, Citrus and Citrus Hybrids, Forage and Fiber Crops, Cucurbit Crops, Fruiting Vegetable Crops, Grapes, Herb and Spice Crops, Hops, Leafy Vegetable Crops, Legume Crops, Oil Crops, Pineapple, Pome Fruit Crops, Potatoes, Sweet Potatoes, Yams and other Root and Tuber Vegetable Crops, Stone Fruit Crops, Strawberry, Tobacco, Kiwi, Olives, and Tree Nut Crops, and other Miscellaneous Crops such as Asparagus, Cacao, Carambola, Coconut, Coffee, Corn, Eggplant, Guava, Longan, Mango, Okra, Papaya, Lychee, Mangosteen, Persimmons, Purslane and Sugarcane.

**Sublabel B: Turf and Ornamental Uses**

For use on Roses, Other Ornamentals such as Annual and Perennial Flowers, Cut Flowers, Bedding Plants, Foliage Plants, Ground Covers, Deciduous and Evergreen Trees and Shrubs in the Field, Container and Conifer Nursery, Lath or Shade House, and Use in Greenhouse and Conifers in Commercial Nurseries, Landscape Trees, Plantations, Forests, and Turf

**Sublabel C: Agricultural Uses – Post Harvest Application**

For use on Potatoes

**ACTIVE INGREDIENTS:**

Mono- and di-potassium salts of Phosphorous Acid*	99.0%
<b>OTHER INGREDIENTS</b>	<b>1.0%</b>
<b>TOTAL</b>	<b>100.0%</b>

\* Equivalent to 0.68 pounds Phosphorous Acid per pound

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

EPA Reg. No. 83472-

EPA Est. No. 73771-CA-1

NET CONTENTS: 5 Lbs [pounds] [25 Lbs] [various]

**Manufactured For:**

Plant Protectants, LLC  
35801 Road 132, Visalia, CA 93292  
559-635-3087

60049

Sub Label A – Agricultural Uses

**FUNGI-PHITE® DF**

A Systemic Fungicide for the Suppression and Control of  
Phytophthora, Pythium and Downy Mildew

**ACTIVE INGREDIENTS:**

Mono- and di-potassium salts of Phosphorous Acid\* ..... 99.0%

**OTHER INGREDIENTS:**..... 1.0%

**TOTAL**..... 100.0%

\* Equivalent to 0.68 pounds Phosphorous Acid per pound

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See [Back] [Side] [Other] Panel for Precautionary Statements

**FIRST AID**

If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

Hotline 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 the International Poison Center at 1-888-740-8712 for emergency medical treatment information.

**EPA Reg. No. 83472-X**

**EPA Est. No. 73771-CA-1**

Manufactured For:  
**Plant Protectants, LLC**  
35801 Road 132  
Visalia, CA 93292  
Ph. 559-635-3087

Net Contents \_\_\_\_\_ pounds [lbs.]

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

All mixers, loaders, applicators and other handlers must wear:

- a. long-sleeved shirt and long pants
- b. waterproof gloves
- c. shoes plus socks
- d. protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USERS SAFETY RECOMMENDATIONS**

- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers to be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

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### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notifications, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 4 hours.

For early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, wear coveralls, waterproof gloves, shoes and socks, and protective eyewear.

**CHEMIGATION:** Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, hand move, fanjet or micro-sprinkler; or drip (trickle) and hydroponic solutions. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

### CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS:

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water system must contain a functional, reduced pressure zone (RPZ) backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.



The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Use a pesticide supply tank that is equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker-spreaders, insecticides, nutrients, etc. Observe all directions, cautions and limitations on the label of the product(s) being mixed.

For fixed position irrigation systems, apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system. Apply the pesticide continuously through irrigation systems that move and do not irrigate the same or fixed area during the irrigation cycle.

Complete the pesticide injection in sufficient time to allow the pesticide to be completely flushed out of the irrigation system before the system is shut down.

**SPRINKLER CHEMIGATION:** The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Use a pesticide supply tank that is equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker-spreaders, insecticides, nutrients, etc. Observe all directions, cautions and limitations on the label of the product(s) being mixed.

For fixed position irrigation systems, apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system. Apply the pesticide continuously through irrigation systems that move and do not irrigate the same (fixed) area during the irrigation cycle.

Complete the pesticide injection in sufficient time to allow the pesticide to be completely flushed out of the irrigation system before the system is shut down.

**DRIP (TRICKLE) CHEMIGATION:** The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

System must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Use a pesticide supply tank that is equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker-spreaders, insecticides, nutrients, etc. Observe all directions, cautions and limitations on the label of the product(s) being mixed.

Apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system.

Complete the pesticide injection in sufficient time to allow the pesticide to be completely flushed out of the irrigation system before the system is shut down.

### GENERAL HYDROPONIC APPLICATION

General Root Rots ( <i>Pythium</i> , <i>Phytophthora</i> ) (Not for use in California unless accompanied by a supplemental label)	For use with plants grown in recirculating hydroponic systems to aid in the control of pathogens.	Add 1.25 to 2.5 Lbs Fungi-Phite® DF per 5000 Gallons of nutrient solution.	Repeat every 4-6 weeks in summer and every eight weeks in winter. Depending on crop load and the water quality, the application time interval may be reduced.
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**Note: For Recirculating (i.e., closed systems) use only. Do not remove reservoir water prior to harvest. Apply solid residue as fertilizer only at Fungi-Phite® DF concentrations at or below those approved on this label for direct application.**

### AGRICULTURAL USE INSTRUCTIONS

#### GENERAL APPLICATION INSTRUCTIONS

Apply this product by various application methods, including foliar spray (aerial and ground), soil drench, soil incorporation and bare root dip. For foliar sprays, apply this product with sufficient water volumes for adequate coverage of foliage, according to crop and growth stage.

Make applications prior to disease development in conjunction with good cultural management practices. Do not exceed the use rates or apply more frequently than the specified interval or plant injury can occur. Do not apply to plants that are dormant or heat or moisture stressed. To avoid undesirable copper phytotoxicity, do not make foliar applications to plants treated with copper-based compounds at less than 20 day intervals unless instructed to do so by your crop consultant. Allow foliage to dry completely after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

#### MIXING INSTRUCTIONS

1. Fill the spray tank with ½ to ¾ of the required volume of water before adding the product.
2. Add the product slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

#### COMPATIBILITY

This product is compatible with most products used in agriculture. However, crop sensitivity to these mixtures may vary. If these combinations or others have not been previously used, do not tank mix without first testing the mixture's compatibility nor apply it without assessing its safety to the crop (phytotoxicity).

The use of spray adjuvants (i.e. stickers, spreaders, wetting agents) will enhance this product's performance. If an adjuvant is used with this product, test before use for compatibility. Do not use strongly acidifying compatibility agents.

To determine the compatibility of this product with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to clean container, thoroughly mix, then let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

To determine if a combination is phytotoxic to a specific crop, spray a few plants/trees/vines and evaluate 3-7 days later for visual effects.

### AVOCADO

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora citricola</i> (Canker)	Trunk Spray	Mix 1.25 to 2.50 pounds in 5 gallons of water. Add 0.25% wetting agent to the solution.	Apply to trunk lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, apply to the trunk from the soil line to about two feet up the trunk. Use the higher rate when lesions are present. Apply one time in the Spring, Summer and Fall.
<i>Phytophthora cinnamomi</i> (Root Rot)	Foliar Spray	Apply 1.25 to 2.50 pounds/acre in a minimum of 20 gallons/acre of water.	Apply up to 6 applications per year at 4-8 week intervals at the start of the growing season.
	Aerial:		
	Ground:	Apply 2.50 pounds/acre in a minimum of 100 gallons/acre of water	
	Chemigation Low Volume:	Apply 2.5 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water	Apply one time in the Spring, Summer and Fall.
	Trunk Injection	Mix a 6.0% w/w solution (3 pounds per 10 gallons).	Inject (according to injection equipment instructions) 0.5 fl oz of the diluted Fungi-Phite™ DF solution into one injection hole. Dosage: One injection (one) per yard (or meter) of canopy diameter at the drip line. (i.e., a tree with 6 yards (or meters) of canopy diameter will require 6 injections via 6 separate injection holes).  Curative: Inject 2 times per year in the Spring and Fall. Preventative: Inject 1 time in the Spring.
Downy Mildew <b>Suppression**</b> of Powdery Mildew† †(Not for use in California unless accompanied by a supplemental label)	Foliar Spray Ground:	Apply 30 ounces/acre in a minimum of 100 gallons/acre of water.	Apply at the first onset of the disease and repeat at 7-10 day intervals until disease abatement.

**BANANAS (Except California)**

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<b>Suppression** of Root Rot Complex and Sigatoka</b>	Foliar Spray Aerial:          Ground:	Apply 1.25 to 2.50 pounds/acre. At the low rate, use 3 gallons/acre of water and at the high rate, use 6 gallons/acre of water.   Apply 1.25-2.50 pounds/acre in a minimum of 15 gallons/acre of water.	Apply every 4 weeks as needed.
	Trunk Injection	Mix a 1.5% w/w solution (12 ounces/10 gallons of water).	Inject 40 ml of the diluted product (according to injection equipment instructions) into the pseudostem, 1-5 feet [1-1.5 m] above the ground. Timing: Inject at the onset of flowering into the mother plant and again into the primary sucker when or close to when the mother plant is harvested.
	Chemigation	Apply 2.5 to 3.75 pounds/acre in at least 100 gallons/acre of water.	Apply 4 times per year.
<b>Suppression** of Bunch Diseases</b>	Foliar Spray of Bunches	Mix a 0.12% w/w spray solution (1 oz/10 gallons of water).	Apply a full cover spray to the fruit bunches when the flower rachis are fully expanded (approximately at bunch cover) and again 14 days later.

**BERRY CROPS, such as:**

Blackberry, Bingberry, Black Satin Berry, Boysenberry, Cherokee Blackberry, Blueberry, Chesterberry, Cheyenne Blackberry, Coryberry, Darrowberry, Dewberry, Dirksen Thornless Berry, Elderberry, Himalayaberry, Hullberry, Lavacaberry, Loganberry, Lowberry, Lucretiaberry, Mammoth Blackberry, Marionberry, Nectarberry, Olallieberry, Oregon Evergreen Berry, Mulberry, Huckleberry, Cranberry, Youngberry, and Raspberry.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 20 gallons/acre of water.	Begin applications in the Spring after bud break (1-3 inches of new growth) and when conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 2-3 week intervals. Do not apply more than 4 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 1-2 week intervals. Do not apply more than 4 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	
	Root Dip	Mix a 1% w/w solution (8 ounces/10 gallons of water).	Apply as pre-plant dip to the roots for 2-3 minutes. Plant within 48 hours after dipping. Mix a fresh solution daily.
	Chemigation Overhead:  Low Volume:	Apply 1.25 to 2.50 pounds/acre in a minimum of 1,000 gallons/acre of water.  Apply 2.5 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 4 times per crop cycle.
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 20 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 100 gallons/acre.	
Suppression** of general leaf and berry diseases such as those caused by <i>Septoria</i> spp. and <i>Anthraco</i> se spp. (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:  Ground:	Apply 1.25 to 2.0 pounds/acre in a minimum of 20 gallons/acre of water.  Apply 1.25 to 2.5 pounds/acre in a minimum of 100 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.  Ideally Fungi-Phite® DF is best used in combination with conventional registered fungicides to increase the performance of the disease control program.

**BULB VEGETABLE CROPS, such as:**

Garlic, Leek, Onion (dry bulb and green), Onion (Welch) and Shallot.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> spp.  <b>Suppression**</b> of Bacterial Diseases (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	Begin applications after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.0 pounds/acre in a minimum of 30 gallons/acre of water.	
	Transplant/Furrow Application	Apply 2 pounds at planting or to newly planted seedlings or shank application.	
	Chemigation Overhead:	Apply 1.25 to 2.50 pounds/acre in a minimum of 1,000 gallons/acre of water.	
	Low Volume:	Apply 2.5 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 10 to 14 day intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	

**BRASSICA CROPS, such as:**

Broccoli, Broccoli Raab (Rapini), Brussels Sprouts, Cabbage, Chinese Broccoli (Gai Ion), Chinese Cabbage (Bok Choy), Chinese Cabbage (Napa), Chinese Mustard Cabbage (Ga Choy), Cauliflower, Cavalo Broccolo, Collards, Kale, Kohlrabi, Mizunna, Mustard Greens, Mustard Spinach and Rape Greens.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><i>Phytophthora</i> and <i>Pythium</i> spp. (root rots and damping off)</p> <p><b>Suppression**</b> of Bacterial Diseases (Not for use in California unless accompanied by a supplemental label)</p>	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<p>Begin applications after plants are established and conditions favor disease development.</p> <p><b>Disease Prevention/Low Pressure Program*</b>: Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*</b>: Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
	Pre Plant Seedling Nursery treatment	Apply 1.25 lbs per 100 gallons of water to nursery plants in seedling trays 1-7 days prior to out planting.	
	Transplant/Furrow application	Apply 2 lbs at planting or to newly planted seedling by side dressing or shank application.	
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<p><b>Low Disease Pressure*</b>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*</b>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
<p><b>Suppression**</b> of leaf diseases caused by <i>Septoria</i>, <i>Collectotrichum</i>, <i>Alternaria</i> and Powdery Mildew (Not for use in California unless accompanied by a supplemental label)</p>	Foliar Spray Aerial:	Apply 1.25 to 2.0 lbs/acre in a minimum of 10 gallons/ acre of water.	<p><b>Low Disease Pressure*</b>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*</b>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 2.5 pounds/acre in a minimum of 30 gallons/acre of water.	



**CEREAL GRAINS, FORAGE AND FIBER CROPS, such as:**

Alfalfa, Barley, Buckwheat, Clover (all types), Corn (all types), Cotton, Hay, Kudzu, Lespedeza, Lupin, Millet, Oats, Popcorn, Rice, Rye, Sainfoin, Sorghum, Teosinte, Trefoil, Triticale, Vetch, Wheat and Wild Rice.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><i>Phytophthora</i> and <i>Pythium</i> spp.</p> <p><b>Suppression**</b> of <i>Fusarium</i>, <i>Rhizoctonia</i> and Head Diseases (Not for use in California unless accompanied by a supplemental label)</p>	Foliar Spray Aerial:	Apply 10 to 30 ounces/acre in a minimum of 15 gallons/acre of water.	<p>Begin application after plants are established and conditions favor disease development.</p> <p><b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 2-4 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*:</b> Apply higher rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p>Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 10 to 40 ounces/acre in a minimum of 100 gallons/acre of water.	
	Chemigation Overhead:	Apply 2.5 to 5.0 pounds/acre in a minimum of 1,000 gallons/acre of water.	
Downy Mildew	Foliar Spray Aerial:	Apply 10 to 30 ounces/acre in a minimum of 15 gallons/acre of water.	<p><b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
<p><b>Suppression**</b> of Powdery Mildew (Not for use in California unless accompanied by a supplemental label)</p>	Ground:	Apply 10 to 40 ounces/acre in a minimum of 100 gallons/acre of water.	
	Foliar Spray Aerial:	Apply 10 to 30 ounces/acre in a minimum of 15 gallons/acre of water.	<p><b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher rate at first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop.</p>

**CITRUS CROPS, such as:**

Calamondin, Citrus Citron, Citrus Hybrids, Clementines, Grapefruit, Kumquat, Lemon, Lime, Mandarin, Orange (Sour), Orange (Sweet), Pummelo and Satsuma Mandarin.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root, Trunk, and Crown rots <i>Phytophthora</i> spp.	Foliar Spray Aerial:	Apply 2.50 pounds/acre in a minimum of 15 gallons/acre of water.	Apply 3-4 times per year during the Spring, Summer, and Fall when conditions favor disease development.
	Ground:	Apply 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	
	Chemigation Low Volume:	Apply 2.5 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water.	Apply with normal irrigation schedule. Follow Foliar Spray <b>APPLICATION PROGRAM</b> as stated above. Do not apply more than 4 times per crop cycle.
	Trunk and Scaffold Branches Spray	Mix 1.25 to 2.50 pounds in 5 gallons of water and apply with a wetting agent or adjuvant on and around the affected area.	Use higher rates when lesions are present. Clean the wound site and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply in Spring, Summer, and Fall.
Suppression** of Pre-Harvest Blue and Green Mold & Brown rot <i>(Phytophthora citricola)</i> (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Ground:	Apply 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	Apply 2-4 weeks prior to harvest. Ensure that fruit is thoroughly covered by the spray application.

**COCONUTS**

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Bud Rot, Trunk cankers and root rot <i>(Phytophthora and Pythium spp.)</i> . <i>Phytophthora</i>	Soil Drench:	Apply 3.5 ounces of a 1.2% w/v solution (24 ounces per 10 gallons) in a 1 foot swatch around the base of each tree.	Curative: Apply every 3 months  Preventative: Apply once per year.
	Stem Injections:	Mix an 8% w/v solution (10 ounces/gallon).	Inject (according to injection equipment instructions) 0.5 fl oz (15 ml) of the diluted Fungi-Phite solution into the tree trunk  Curative: inject 2 times per year in the Spring and Fall.  Preventative: Inject 1 time in the Spring.

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**CUCURBIT CROPS, such as:**

Chinese Waxgourd, Citron Melon, Cucumber, Gherkin, Gourd (edible), Momordica spp. (Balsam Apple, Balsam Pear, Biter Melon, Chinese Cucumber), Muskmelon, Pumpkin, Summer and Winter Squash and Watermelon.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> sp (root rots and damping off)	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	Begin applications after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
	Pre-planting Seedling Nursery application	Apply 1.25 lbs/ 100 gallons water to nursery plants in seedling trays 1-7 days prior to out planting.	
	Transplant and Furrow Application	Apply 2 pounds at planting or to newly planted seedling by side dressing or shank application.	
	Chemigation Overhead:	Apply 1.25 to 2.50 pounds/acre in a minimum of 1,000 gallons/acre of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2.5 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water.	
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.
Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.  Fungi-Phite is most effectively applied to control downy mildew when tank mixed with other registered fungicides.		
Suppression** of Powdery Mildew and other leaf diseases such as Anthracnose and Alternaria leaf blight (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25-2.0 lbs/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat application at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
Ground:	Apply 1.5-2.5 acre in a minimum of 30 gallons/acre of water.		

**FRUITING VEGETABLE CROPS (Except Cucurbits), such as:**

Pepino, Pepper (Bell, Chili, Cooking, Pimento, Sweet), Tomatillo, Tomato and Eggplant.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><i>Phytophthora</i> and <i>Pythium</i> sp (damping off and root rots)</p> <p><b>Suppression**</b> of Bacterial Diseases (Not for use in California unless accompanied by a supplemental label)</p>	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<p>Begin applications after plants are established and conditions favor disease development.</p> <p><b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p> <p>For control of Bacterial leaf spot of Tomato, apply the high rate of Fungi-Phite™ DF with registered bacteriacides.</p>
	Ground:	Apply 1.25-3.0 lbs/acre in a minimum of 30 gallons/acre of water.	
	Pre-plant seedling nursery Application:	Apply 1.25 lbs/ 100 gallons water to nursery plants in seedling trays 1-7 days prior to out planting.	
	Transplant/Furrow Applications:	Apply 2.0 lbs at planting or to newly planted seedlings by side dressing or shank application.	
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<p><b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
Suppression** of Powdery Mildew and other leaf diseases such as Anthracnose and <i>Alternaria</i> leaf blight (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25-2.0 acre in a minimum of 10 gallons/acre of water.	<p><b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25-2.5 lbs/acre in a minimum of 30 gallons/acre of water.	

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**GRAPES**

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> sp	Foliar Spray Aerial:  Ground:	Apply 1.25 to 2.0 pounds/acre in a minimum of 15 gallons/acre of water.  Apply 1.25 to 2.50 pounds/acre in a minimum of 50 gallons/acre of water.	Apply to vines that have stressed root system that can lead to root rots. Mitigating factors such as nematode pressure, water logging and compaction contribute to vine declines.  Table Grapes: Begin applications in the Spring at the 4-6 inch shoot stage. Continue applications at 1-2 week intervals until flowering. Resume applications in the Fall after harvest. Do not apply more than 4 times per crop cycle. Wine and Raisin Grapes: Begin applications in the Spring at the 4-6 inch shoot stage. Continue applications at 1-2 week intervals through flowering. Do not apply more than 4 times per crop cycle.
	Chemigation Low Volume:	Apply 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	Apply 4-6 times per crop cycle.
Downy Mildew	Foliar Spray Aerial:  Ground:	Apply 1.25 to 2.0 pounds/acre in a minimum of 15 gallons/acre of water.  Apply 1.25 to 2.50 pounds/acre in a minimum of 50 gallons/acre of water.  Fungi-Phite is most effectively applied to control downy mildew when tank mixed with other registered fungicide.	Begin applications at bud break with additional applications at 7-10 day intervals in rotational programs with other labeled fungicides. Use higher rates and volumes based on disease severity and density of canopy. Do not apply more than 6 times per crop cycle.
Suppression** of Powdery Mildew (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:  Ground:	Apply 2.0-2.5 lbs/acre in a minimum of 10 gallons/acre of water.  Apply 2.0-2.5 lbs/acre in a minimum of 30 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.

**HERB AND SPICE CROPS, such as:**

Allspice, Angelica, Anise, Annatto, Balm, Basil, Borage, Burnet, Camomile, Caper Buds, Caraway, Cardamom, Cassia (bark and buds), Catnip, Celery Seed, Chervil, Chive, Cinnamon, Clary, Clove, Cocoa, Coriander, Costmary, Cilantro, Cumin, Curry, Dill, Fennel, Fenugreek, Grains of Paradise, Horehound, Hyssop, Juniper Berry, Lavender, Lemongrass, Lovage, Mace, Marigold, Marjoram, Mint, Mustard, Nasturtium, Nutmeg, Parsley, Pennyroyal, Pepper, Poppy seed, Rosemary, Rue, Saffron, Sage, Savory, Sweet Bay, Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff and Wormwood.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root rots and damping off <i>(Phytophthora and Pythium sp)</i>  Suppression** of <i>Fusarium</i> and <i>Rhizoctonia</i> (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
	Pre-plant nursery treatment	Apply 1.25 lbs/100 gallons water to nursery plants in seedling trays 1-7 days prior to out planting.	
	Transplant/Furrow application	Apply 2.0 lbs at planting or to newly planted seedling by side dressing or shank application	
	Chemigation Overhead:	Apply 2.5 to 3.75 pounds/acre in a minimum of 1,000 gallons/acre of water.	
	Low Volume:	Apply 2.5 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 week intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
Suppression** of Powdery Mildew (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 2.0-2.5 lbs/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 2.0-2.5 lbs/acre in a minimum of 30 gallons/acre of water.	

**HOPS (Except California)**

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Downy Mildew	Foliar Spray Aerial:  Ground:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.  Apply 1.25 to 2.50 pounds/acre in a minimum of 25 gallons/acre of water.	Make applications during favorable disease development conditions 1) when shoots are 6-12 inches high; 2) after training when vines are 5-6 feet tall; 3) about 3 weeks after the second application; and 4) during bloom.  During periods of high disease pressure, apply at 7-10 day intervals until disease abatement. Do not apply more than 6 applications per season.

### LEAFY VEGETABLE CROPS (Except Brassica Vegetables), such as:

Amaranth, Arugula (Roquette), Cardoon, Celery, Celery (Chinese), Celtuce, Chervil, Chrysanthemum (Edible Leaved, Garland), Corn Salad, Cress (Garden, Upland), Dandelion, Dock (Sorrel), Endive (Escarole), Fennel (Florence), Lettuce (Head and Leaf), Orach, Parsley, Purslane (Garden and Winter), Radicchio (Red Chicory), Rhubarb, Spinach, Spinach (New Zealand and Vine) and Swiss Chard.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Damping off and root rots ( <i>Phytophthora</i> and <i>Pythium</i> sp)	Foliar Spray Aerial:	Apply 1.25 to 2.50 pounds/acre in a minimum of 10 gallons/acre of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
	Pre-plant Nursery application	Apply 1.25 lbs/100 gallons water to nursery plants in seedling trays 1-7 days prior to out planting.	
	Chemigation Overhead:	Apply 1.25 to 2.50 pounds/acre in a minimum of 1,000 gallons/acre of water.	
	Low Volume:	Apply 1.25 to 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	
	Transplant/Furrow application	Apply 2.0 lbs at planting.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 2.50 pounds/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
Suppression** of Powdery Mildew and leaf diseases such as anthracnose ( <i>Collectotrichum</i> spp), leaf blights septoria & <i>Cercospora</i> spp) and bacterial rots ( <i>Erwinia</i> spp) (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 2.0-2.5 lbs/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 2.0-2.5 lbs/acre in a minimum of 30 gallons/acre of water.	



**LEGUME CROPS (Except Brassica Vegetables), such as:**

Legume Vegetables (succulent or dried), Bean (Lupins, all), Bean (Field, Kidney, Lima, Navy, Pinto, Runner, Snap, Tepary and Wax), Bean (Adzuki, Asparagus, Blackeyed, Catjang, Chinese Longbean, Cowpea, Crowder Pean, Moth, Mung, Rice, Southern Pea, Urd, Yardlong), Broad Bean (Fava), Chickpea (Garbanzo), Guar, Jackbean, Lablab Bean, Lentil, Pea (Dwarf, Edible-Pod, English, Field, Garden, Green, Snow, Sugar Snap), Pigeon Pea, Soybean and Sword Bean.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><i>Phytophthora</i> and <i>Pythium</i> sp</p> <p><b>Suppression**</b> of Powdery Mildew, <i>Fusarium</i> and <i>Rhizoctonia</i> (Not for use in California unless accompanied by a supplemental label)</p>	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<p>Begin applications after plants are established and conditions favor disease development.</p> <p><b>Disease Prevention/Low Pressure Program*</b>: Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*</b>: Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
	Pre-plant nursery application	Apply 1.25 lbs/100 gallons water to nursery plants in seedling trays 1-7 days prior to out planting.	
	Transplant/Furrow application	Apply 2.0 lbs at planting or to newly planted seedling by side dressing or shank application	
	Chemigation Overhead:	Apply 1.25 to 2.50 pounds/acre in a minimum of 1,000 gallons/acre of water.	
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 2.50 pounds/acre in a minimum of 10 gallons/acre of water.	<p><b>Low Disease Pressure*</b>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*</b>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 3.75 pounds/acre in a minimum of 30 gallons/acre of water.	
	Low Volume:	Apply 2.5 to 5.0 pounds/acre in a minimum of 100 gallons/acre of water.	
Suppression** of Powdery Mildew and leaf diseases such as anthracnose ( <i>Collectotrichum</i> spp), leaf blights septoria & <i>Cercospora</i> spp) and bacterial rots ( <i>Erwinia</i> spp) (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.5-2.0 quarts/acre in a minimum of 10 gallons/acre of water.	<p><b>Low Disease Pressure*</b>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*</b>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.5-2.0 quarts/acre in a minimum of 30 gallons/acre of water.	
Transplant Application	Apply 2.0 lbs at planting.		

26048

**MISCELLANEOUS FOOD CROPS, such as:**

Asparagus, Cacao, Coconut, Coffee, Corn (all types), Guava, Carambola, Lychee, Langan, Wax Apple, Okra, Papaya, Persimmons, Purslane and Sugarcane.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><i>Phytophthora</i> and <i>Pythium</i> sp</p> <p><b>Suppression**</b> of Bacterial and Leaf Diseases such as coffee berry disease, (Collectotrichum spp), Anthracnose (Collectotrichum spp) and various leaf spots (Septoria and Cercospora spp) (Not for use in California unless accompanied by a supplemental label)</p>	Foliar Spray Aerial:	Apply 1.25 to 2.50 pounds/acre in a minimum of 10 gallons/acre of water.	<p>Begin application after plants are established and conditions favor disease development.</p> <p><b>Disease Prevention/Low Pressure Program*</b>: Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*</b>: Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	
	Root Dip	Mix a 0.15% w/v solution (20 ounces/100 gallons of water.	Apply as pre-plant dip to transplants immediately prior to planting. Dip plants momentarily and plant within 48 hours. Mix a fresh solution daily.
<p><i>Phytophthora</i> sp Pruning Wound and Trunk Canker</p>	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 10 gallons/acre of water.	<p>Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.</p>
	Ground	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
	Transplant/Furrow application	Apply 2.0 lbs at planting or to newly planted seedling by side dressing or shank application	
Downy Mildew	Trunk Spray	Mix 1.25 to 2.50 pounds with 5 gallons of water.	<p>Use higher rates when lesions are present. Clean the wound site and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply in Spring, Summer, and Fall.</p>
Powdery Mildew Suppression** (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25-3.75 lbs/acre in a minimum of 10 gallons/acre of water.	<p><b>Low Disease Pressure*</b>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*</b>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25-3.75 lbs/acre in a minimum of 100 gallons/acre of water.	

**OIL CROPS, such as:**

Canola (Oil Seed Rape), Cotton, Safflower, Sunflower, Corn, Palm Oil and Betel Nut.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> sp  <b>Suppression**</b> of Bacterial and Leaf Diseases such as, Anthracnose ( <i>Collectotrichum</i> spp) and various leaf spots ( <i>Septoria</i> and <i>Cercospora</i> spp) (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 0.65 to 1.25 pounds/acre in a minimum of 15 gallons/acre of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 0.5-2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
	Root Dip	Mix a 0.15% solution (20 ounces/100 gallons of water).	
	Chemigation Overhead:  Low Volume:	Apply 2.5 to 3.75 pounds/acre in a minimum of 1,000 gallons/acre of water.  Apply 2.5 to 5.0 pounds/acre in a minimum of 100 gallons/acre of water.	
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 3.75 pounds/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 3.75 pounds/acre in a minimum of 30 gallons/acre of water.	
Powdery Mildew Suppression** (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25-2.0 lbs/acre in a minimum of 10 gallons/acre of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25-2.0 lbs/acre in a minimum of 100 gallons/acre of water.	

**PEANUTS**

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root rots, Pod rots, damping off, Wilt, ( <i>Phytophthora</i> and <i>Pythium</i> spp)  <b>Suppression**</b> of leaf and crown diseases, Anthracnose ( <i>Collectotrichum</i> ) (Not for use in California unless accompanied by a supplemental label)	Foliar Aerial Application:	Apply 1.25-2.5 lbs/acre in a minimum of 10 gallons/acre of water	Begin application after plants are established and conditions favor disease development.  <b>Disease Prevention/ Lowe Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>Disease Control/High Pressure Program*:</b> Apply higher rates at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Foliar Ground:	Apply 1.25-3.0 lbs/acre in a minimum of 100 gallons/acre of water.	
	Transplant/Furrow Application:	Apply 2.0 lbs at planting or to newly planted seedlings by side/top dressing or shank application.	

**PINEAPPLE (Except California)**

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> sp (Heart Rot and Root Rot)	Dip	Mix a 0.3% w/v solution (2.5 pounds/100 gallons of water).	Immerse planting material in solution for 1 minute prior to planting.
	Foliar Spray Aerial:	Apply 2.0 pounds/acre in a minimum of 15 gallons/acre of water.	Preventative: Apply every 4-6 months. Curative: Apply every 2-3 months.
	Ground:	Apply 2.0 pounds/acre in a minimum of 200 gallons/acre of water.	
	Chemigation Low Volume:	Apply 2.0 pounds/acre in a minimum of 500 gallons/acre of water.	Apply 4 times per year during the Spring, Summer and Fall.

**POME FRUIT CROPS, such as:**

Apple, Crabapple, Loquat, Mayhaw, Pear, Asian Pear and Quince.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> sp (Root rot, Collar rot, foot rot and trunk cankers)  Suppression** of Fire Blight, Blister Spot, Blue and Green Mold, Alternaria Blotch, blister spot and Pear Black Spot (Not for use in California unless accompanied by a supplemental label)	Chemigation Overhead:	Apply 2.5-3.75 lbs/acre in a minimum of 1,000 gallons/acre of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.  <b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.  Apply during active plant growth. Commence from flowering for Fire blight suppression in combination with registered antibiotics.
	Foliar	Apply 1.25-3.0 lbs/acre in a minimum of 100 gallons/acre of water.	
	Trunk Spray	Mix 1.25 to 2.50 pounds with in 5 gallons of water.	Use higher rates when lesions are present. Clean the wound site and apply on an around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply one time in the Spring, Summer, and Fall.
Suppression** of Powdery Mildew (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25 to 2.50 pounds/acre in a minimum of 20 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 4 times per crop cycle.
	Ground:	Apply 1.25 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water.	

POTATOES

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p>Pink rot, Pythium Leak (Phytophthora infestans, Phytophthora erythroseptica and Pythium spp.)</p> <p><b>Suppression** of Late Blight</b></p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p>	<p>Apply 1.25 to 2.50 pounds/acre in a minimum of 20 gallons/acre of water.</p> <p>Apply 1.25 to 2.50 pounds/acre in a minimum of 50 gallons/acre of water.</p>	<p>Begin application after plants are established and conditions favor disease development.</p> <p><b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p> <p>Late Blight management using Fungi-Phite™ DF requires the high application rate and is most effectively applied when tank mixed with other registered fungicides.</p>
	<p>Chemigation Overhead:</p> <p>Low Volume:</p>	<p>Apply 2.5 to 3.75 pounds/acre in a minimum of 1,000 gallons/acre of water.</p> <p>Apply 2.5 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water.</p>	<p>Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 4 times per crop cycle.</p>
	<p>Seed Piece Spray</p>	<p>Mix an 8% w/ v solution (10 ounces per gallon of water. Treat 2 tons of tubers with 1 gallon of solution.</p>	<p>Treat seed pieces with a full coverage spray.</p>
<p>Powdery Mildew Suppression** (Not for use in California unless accompanied by a supplemental label)</p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p>	<p>Apply 1.25 to 3.75 pounds/acre in a minimum of 20 gallons/acre of water.</p> <p>Apply 1.25 to 3.75 pounds/acre in a minimum of 50 gallons/acre of water.</p>	<p><b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 4 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 4 times per crop cycle.</p>

**ROOT AND TUBER VEGETABLE CROPS, such as:**

Arracacha, Arrowroot, Artichoke (all types), Beet (all types), Burdock, Canna, Carrot, Cassava, Celeriac, Chayote, Chervil (turnip-rooted), Chicory, Chufa, Cinchoca, Dasheen, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Radish (all types), Rutabaga, Salisify (all types), Skirret, Sweet Potato, Tanier, Turmeric, Turnip, Yam (all types).

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><i>Phytophthora</i> and <i>Pythium</i> sp</p> <p><b>Suppression**</b> of Foliar and Bacterial Diseases (Not for use in California unless accompanied by a supplemental label)</p>	Foliar Spray Aerial:	Apply 1.25 to 2.50 pounds/acre in a minimum of 10 gallons/acre of water.	<p>Begin application after plants are established and conditions favor disease development.</p> <p><b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 30 gallons/acre of water.	
	Pre-plant nursery seedling application:	Apply 1.25 lbs/100gallons water to nursery plants in seeding trays 1-7 days prior to out planting.	<p>Apply as pre-plant dip to the roots for 2 minutes. Plant within 48 hours after dipping. Mix a fresh solution daily.</p> <p>Apply with normal irrigation schedule beginning at the 4-6 true leaf stage. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.</p>
	Root/ Tuber Dip	Mix a 0.3% solution (2.50 pounds/100 gallons of water.	
	Chemigation Overhead:  Low Volume:  Transplant/Furrow Application:	Apply 2.5 to 3.75 pounds/acre in a minimum of 1,000 gallons/acre of water.	
Apply 2.5 to 5.0 pounds/acre in a minimum of 100 gallons/acre of water.  Apply 2.0 lbs at planting or to newly planted seedling by side dressing or shank application.			
Downy Mildew	Foliar Spray Aerial:	Apply 1.25 to 3.75 pounds/acre in a minimum of 10 gallons/acre of water.	<p><b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.</p>
	Ground:	Apply 1.25 to 3.75 pounds/acre in a minimum of 30 gallons/acre of water.	

**STONE FRUIT CROPS, such as:**

Apricot, Cherry, Nectarine, Peach, Plum, Plumcot and Prune.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> sp (Root Rot, Crown rot, Collar Rot and Foot Rot)	Trunk and Scaffold Branches Spray	Mix 1.25-2.5 lbs in 5 gallons of water and apply with a wetting agent or adjuvant on and around the affected area.	Use higher rates when lesions are present. Clean the wound site and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply in Spring, Summer, and Fall.
	Root Dip	Mix a 0.15% w/v solution (20 ounces/100 gallons of water).	Apply as pre-plant dip to the roots for 10 seconds. Plant within 48 hours after dipping. Mix a fresh solution daily.
	Chemigation Overhead:  Low Volume:	Apply 2.5-3.75 lbs/acre in a minimum of 1,000 gallons/acre of water.  Apply 2.5-5.0 lbs/acre in a minimum of 100 gallons/acre of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 4 times per crop cycle.  Apply during the active growing season a maximum of 4 times.
Suppression** of Powdery Mildew and other fungal and bacterial diseases such as Fire Blight, ( <i>Erwinia</i> spp) scab ( <i>Venturia</i> spp) and blister spot ( <i>anthomonas</i> spp) (Not for use in California unless accompanied by a supplemental label	Foliar Spray Aerial:    Ground:	Apply 1.25-3.75 lbs/acre in a minimum of 20 gallons/acre of water.  Apply 1.25-3.75 lbs/acre in a minimum of 100 gallons/acre of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-3 week intervals. Do not apply more than 4 times per crop cycle.  <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 1-3 week intervals. Do not apply more than 4 times per crop cycle.

**STRAWBERRY**

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><i>Phytophthora</i> and <i>Pythium</i> sp (Red Stele, Leather Rot and Root Rot)</p> <p><b>Suppression**</b> of Foliar Fungal and Bacterial Diseases (Anthracnose, Rhizopus) (Not for use in California unless accompanied by a supplemental label)</p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p> <p>Chemigation Overhead:</p> <p>Low Volume:</p> <p>Transplant/Furrow Application</p>	<p>Apply 1.25 to 2.50 pounds/acre in a minimum of 20 gallons/acre of water.</p> <p>Apply 1.25 to 2.50 pounds/acre in a minimum of 50 gallons/acre of water.</p> <p>Apply 2.5 to 3.75 pounds/acre in a minimum of 1,000 gallons/acre of water.</p> <p>Apply 2.5 to 5.0 pounds/acre in a minimum of 100 gallons/acre) of water.</p> <p>Apply 2.0 lbs at planting or to newly planted seedling by side dressing or shank application.</p>	<p>Begin application during active plant growth. Repeat on a 2-4 week interval when conditions favor disease development.</p> <p>Perennial planting: Start Spring applications when the plants start active growth. Repeat application at 2-4 week interval if disease conditions persist or reoccur.</p> <p>If using Red Stele susceptible varieties or if disease pressure is severe, use higher rates, shortest application time and maximum number of applications. Do not apply more than 6 times per crop cycle.</p> <p>Grey mold and Anthracnose suppression using Fungi-Phite requires the use of the high application rates and is most effectively applied when tank mixed with other registered fungicides.</p>
<p><i>Phytophthora</i> sp (Not for use in California unless accompanied by a supplemental label)</p>	<p>Dip</p>	<p>Mix a 0.15% w/ v solution (20 ounces/100 gallons of water.</p>	<p>Dip runners in the solution for 1-2 minutes. Plant within 48 hours. Mix a fresh solution daily.</p>
<p>Leather Rot <i>Phytophthora cactorum</i> (Not for use in California unless accompanied by a supplemental label)</p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p>	<p>Apply 1.25 to 2.50 pounds/acre in a minimum of 20 gallons/acre of water.</p> <p>Apply 1.25 to 2.50 pounds/acre in a minimum of 50 gallons/acre of water.</p>	<p>Start application at 10% bloom and early fruit set. Continue applications on a 7-14 day interval when conditions favor disease development. Under heavy disease pressure, use the higher rate and apply on a 7 day interval. Do not apply more than 6 times per crop cycle.</p>
<p>Powdery Mildew Suppression** (Not for use in California unless accompanied by a supplemental label)</p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p>	<p>Apply 1.25 to 2.0 pounds/acre in a minimum of 20 gallons/acre of water.</p> <p>Apply 1.25 to 2.50 pounds/acre in a minimum of 50 gallons/acre of water.</p>	<p><b>Low Disease Pressure*</b>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*</b>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>



## TOBACCO (Except California)

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> sp.(root rot and damping off)  Blue Mold (Peronospora tabacina)  Black Shank (P parasitica) and Root Declines	Foliar Spray Aerial:	Apply 1.25 to 2.50 pounds/acre in a minimum of 20 gallons/acre of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 4 week intervals. Do not apply more than 4 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 2 week intervals. Do not apply more than 4 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	
	Pre-plant nursery seeding application:	Apply 100 gallons water to nursery plants in seedling trays 1-7 days prior to out planting.	
	Chemigation Overhead:	Apply 1.25 to 2.50 pounds/acre in a minimum of 1,000 gallons/acre of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 4 times per crop cycle.
Low Volume:	Apply 2.5 to 3.75 pounds/acre in a minimum of 100 gallons/acre of water.		

### KIWI, OLIVES AND TREE NUT CROPS, such as:

Almond, Beech Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hazelnuts, Hickory Nut, Macadamia Nut, Pecan, Pistachio, and Walnut.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium</i> sp (Root rots, Crown rots) trunk cankers, foliar blights).  <b>Suppression**</b> of foliar bacterial and fungal diseases Anthracnose ( <i>Collectotrichum</i> ), Hull rot ( <i>Monilia</i> spp), Flower diseases ( <i>Cladosporium</i> spp), <i>Alternaria</i> leaf spots ( <i>Alternaria</i> spp), raceme blight ( <i>Phytophthora</i> ) in Macadamia. (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25-2.5 lbs/acre in a minimum of 20 gallons/acre of water.	Begin application during active plant growth after plants are established and conditions favor disease development.  <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 3 monthly intervals. Do not apply more than 4 times per crop cycle.  <b>Disease Control/High Pressure Program*</b> : Apply higher rate at monthly intervals. Do not apply more than 4 times per crop cycle.
	Ground:	Apply 1.25-2.5 lbs/acre in a minimum of 100 gallons/acre of water.	
	Root Dip	Mix a 0.3% w/v solution (40 ounces/100 gallons of water.	Apply as pre-plant dip to the roots for 30 seconds. Plant within 48 hours after dipping. Mix a fresh solution daily.
	Chemigation Overhead:	Apply 2.5-3.75 lbs/acre in a minimum of 1,000 gallons/acre of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2.5-5.0 lbs/acre in a minimum of 100 gallons/acre of water.	
<i>Phytophthora</i> spp. Pruning Wound, crown and Trunk Canker	Trunk Spray	Mix 1.25-2.5 lbs with 5 gallons of water.	Use higher rates when lesions are present. Clean the wound site and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply one time in the Spring, Summer, and Fall.
Powdery Mildew Suppression ** (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25-2.5 lbs/acre in a minimum of 20 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25-2.5 lbs/acre in a minimum of 100 gallons/acre of water.	
Downy Mildew ( <i>Phytophthora</i> & <i>Peronospora</i> spp)	Foliar Spray Aerial:	Apply 1.25-2.5 lbs/acre in a minimum of 20 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25-2.5 lbs/acre in a minimum of 100 gallons/acre of water.	

350 of 48

\*Check with your local Extension Agent or Crop Consultant if you are unsure about disease prevention, control or severity/pressure.

\*\*Suppression: Fungi-Phite™ DF has suppressive properties on diseases caused by certain bacteria or fungi. When applying Fungi-Phite™ DF for disease suppression, use it in combination with another registered bactericide or fungicide registered for the same crops listed on this label.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal.  
**PESTICIDE STORAGE:** Store in a cool, dry place.  
**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).  
**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment. Triple rinse (or equivalent). Then offer for recycling if available or dispose of empty container in a sanitary landfill, or by incinerator or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY STATEMENT**

PLANT PROTECTANTS, LLC warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions not reasonably foreseeable to seller and to the fullest extent permitted by state law, buyer assumes all risk of any such use.  
[Label version 7-8-2010]

360948

**Sub Label B Turf & Ornamental Label**

**FUNGI-PHITE™ DF T & O**

A Systemic Fungicide for the Suppression and Control of  
Phytophthora, Pythium and Downy Mildew

**ACTIVE INGREDIENTS:**

Mono- and di-potassium salts of Phosphorous Acid\*.....99.0%

**OTHER INGREDIENTS:**.....1.0%

**TOTAL**.....100.0%

\* Equivalent to 0.68 pounds Phosphorous Acid per pound

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See [Back] [Side] [Other] Panel for Precautionary Statements

**FIRST AID**

If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the International Poison Center at 1-888-740-8712 for emergency medical treatment information.</p>	

EPA Reg. No. 83472-

EPA Est. No. 73771-CA-1

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks
- protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

370498

Manufactured For:  
**Plant Protectants, LLC**  
35801 Road 132 –Visalia, CA 93292

Net Contents \_\_\_\_\_pounds [lbs.]

**USERS SAFETY RECOMMENDATIONS**

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers to be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notifications, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry in to treated areas during the REI of 4 hours.

For early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, wear coveralls, waterproof gloves, shoes and socks, and protective eyewear.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements of this box apply to uses of the product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter treated areas without protective clothing until sprays have dried.

**CHEMIGATION:** Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, hand move, fanjet or micro-sprinkler; or drip (trickle). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

### **CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS:**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water system must contain a functional, reduced pressure zone (RPZ) backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Use a pesticide supply tank that is equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker-spreaders, insecticides, nutrients, etc. Observe all directions, cautions and limitations on the label of the product(s) being mixed.

For fixed position irrigation systems, apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system. Apply the pesticide continuously through irrigation systems that move and do not irrigate the same or fixed area during the irrigation cycle.

Complete the pesticide injection in sufficient time to allow the pesticide to be completely flushed out of the irrigation system before the system is shut down.

**SPRINKLER CHEMIGATION:** The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Use a pesticide supply tank that is equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker-spreaders, insecticides, nutrients, etc. Observe all directions, cautions and limitations on the label of the product(s) being mixed.

For fixed position irrigation systems, apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system. Apply the pesticide continuously through irrigation systems that move and do not irrigate the same (fixed) area during the irrigation cycle.

Complete the pesticide injection in sufficient time to allow the pesticide to be completely flushed out of the irrigation system before the system is shut down.

**DRIP (TRICKLE) CHEMIGATION:** The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

System must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Use a pesticide supply tank that is equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker-spreaders, insecticides, nutrients, etc. Observe all directions, cautions and limitations on the label of the product(s) being mixed.

Apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system.

Complete the pesticide injection in sufficient time to allow the pesticide to be completely flushed out of the irrigation system before the system is shut down.

### **APPLICATION INSTRUCTIONS FOR ORNAMENTAL PLANTS, CONIFERS AND TURF**

#### **GENERAL APPLICATION INSTRUCTIONS**

Apply this product by various application methods, including foliar spray (aerial and ground), soil drench, soil incorporation and bare root dip. For foliar sprays, apply this product with sufficient water volumes for adequate coverage of foliage, according to crop and growth stage.

Make applications prior to disease development in conjunction with good cultural management practices. Do not exceed the use rates or apply more frequently than the specified interval or plant injury can occur. Do not apply to plants that are dormant or heat or moisture stressed. To avoid undesirable copper Phytotoxicity, do not make foliar applications to plants treated with copper-based compounds at less than 20 day intervals unless instructed to do so by your crop consultant. Allow foliage to dry completely after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).



**MIXING INSTRUCTIONS**

1. Fill the spray tank with ½ to ¾ of the required volume of water before adding the product.
2. Add the product slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

**COMPATIBILITY**

This product is compatible with most products used in agriculture. However, crop sensitivity to these mixtures may vary. If these combinations or others have not been previously used, do not tank mix without first testing the mixture's compatibility nor apply it without assessing its safety to the crop (Phytotoxicity).

The use of spray adjuvants (i.e. stickers, spreaders, wetting agents) will enhance this products performance. If an adjuvant is used with this product, test before use for compatibility. Do not use strongly acidifying compatibility agents.

To determine the compatibility of this product with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to clean container, thoroughly mix, then let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

To determine if a combination is phytotoxic to a specific crop, spray a few plants/trees/vines, then evaluate 3-7 days later for visual effects.

**ROSES**

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root Rot and cankers ( <i>Phytophthora</i> and <i>Pythium</i> sp)	Foliar:	Apply 1.25 to 2.0 pounds/acre in a minimum of 20 gallons/acre of water.	Apply at 2-4 week intervals and repeat as needed. Application rates depend upon plant type, maturity and spray technique/method. Do not apply more than 6 times per crop cycle.
Suppression** of Foliar Diseases (Not for use in California unless accompanied by a supplemental label)	Soil Drench	Mix 1.25 to 2.50 pounds in 100 gallons of water.	Apply using hand held, mechanical, or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or low volume irrigation systems to propagation beds, containers, pots, trays, or nursery or landscape beds at a rate to thoroughly soak the growing media through the root zone. A general guide is 1.25 to 2.50 pounds/sq ft (5-10 L/m <sup>2</sup> ) of the diluted mixture depending on the media type and depth (about 3 fl oz/3 inch pot or 6 fl oz/6 inch pot or about 80 ml/10 cm pot and 120 ml/15 cm pot).  Mix product with soil media immediately before potting. If conditions are favorable for disease development, applications as a foliar spray or drench will enhance protection.
	Soil Incorporation:	Mix 2.5-10 ounces/cubic yard of soil media.	
Powdery Mildew Suppression**	Foliar Spray Aerial:	Apply 1.25-2.0 lbs/acre in a minimum of 20 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-2.0 quarts/acre in a minimum of 75 gallons/acre of water.	

**ORNAMENTALS, such as:**

Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, Deciduous and Evergreen Trees and Shrubs in the field, Container, and Conifer Nursery, Lath or Shade House, Greenhouse, Residential, Commercial and Municipal Landscapes. Use in Greenhouses:

Ornamentals and Bedding Plants such as: Ageratum, Aglaonema, Algerian Ivy, Anthurium, Aphelandra, Arborvitae, Artemisia, Aster, Azaleas, Baby's Breath, Begonia, Bougainvillea, Boxwood, Caladium, Carnation, Cattelya Skinneri, Ceanothus, Chrysanthemum, Cissus, Coleus, Columbine, Cotoneaster, Daisy, Delphinium, Dieffenbachia, Dogwood, Easter Lily, English Ivy, Ficus, Foxglove, Gaillardia, Geranium, Gloxinia, Hibiscus, Impatiens, Japanese Holly Juniper, Leather-Leaf Fern, Marigold, Monterey Pine, Pansy, Peperomia, Petunia, Philodendron, Phlox, Photinia, Pieris, Pinks, Pittosporum, Poinsettia, Pothos, Primrose, Prostrate Rosemary, Rhododendron, Salvia, Schefflera, Sedum, Sempervivum, Snapdragon, Spathiphyllum, Taxus Media, Verbena, Vinca, White Cedar, White Pine, Zinnia, Zygocactus, etc.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root and crown rots, stem cankers and foliar blight. <i>Phytophthora</i> and <i>Pythium</i> sp  <b>Suppression**</b> of Foliar Diseases (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25 to 2.0 pounds/acre in a minimum of 20 gallons/acre of water.	Apply at 2-3 week intervals and repeat as needed. Use the lower rate on sensitive plants. For greenhouse applications, do not exceed the lower rate (1 quart/100 gallons/acre of water or 2 L/950 L/ha of water). Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	
	Soil Drench	Mix 3-6 ounces in 100 gallons of water.	Apply 25 gallons of solution per 100 square feet. Irrigate to distribute solution through soil. Repeat as required. Limit to one application per month.
	Soil Incorporation	Mix 0.65 to 1.25 pounds/cubic yard of soil.	Mix immediately before potting. If conditions are favorable for disease development, a foliar spray or soil drench application will enhance protection.
	Root Dip	Mix a 0.15% w/v solution (20 ounces/100 gallons of water).	Dip transplants into diluted mixture keeping roots submerged for 20-30 seconds. Plant within 48 hours. Make a fresh solution daily.
	Chemigation Overhead: Low Volume:	Apply 2.50 pounds/acre in a minimum of 1,000 gallons/acre of water. Apply 1.25 to 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	Apply with normal irrigation schedule. Follow Foliar Spray <b>APPLICATION PROGRAM</b> as stated above. Do not apply more than 6 times per crop cycle.
Downy Mildew	Foliar Spray Aerial:	Apply 0.65 to 1.25 pounds/acre in a minimum of 20 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle. Application amount depends upon plant type, maturity and application technique/method.
	Ground:	Apply 1.25-3.0 lbs/acre in a minimum of 100 gallons/acre of water.	
Powdery Mildew <b>Suppression**</b>	Foliar Spray Aerial:	Apply 1.25-2 lbs/acre in a minimum of 20 gallons/acre of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.25-2.5 lbs/acre in a minimum of 50 gallons/acre of water.	

## CONIFERS IN COMMERCIAL NURSERIES, LANDSCAPE TREES, PLANTATIONS, FORESTRY AND PARKS APPLICATIONS such as:

Christmas Tree Varieties, Firs, Spruces, Ash, Pines, Beech, Cedar, Chestnut, Crab Apple, Dogwood, Elm, Fir, Hawthorn, Juniper, Linden, Oaks, Birch, Eucalyptus and Willow.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root rot and trunk cankers <i>(Phytophthora Pythium sp)</i>  <b>Suppression**</b> of Foliar Diseases (Not for use in California unless accompanied by a supplemental label)  Enhancement of Mycorrhization (Not for use in California unless accompanied by a supplemental label)	Foliar Spray Aerial:	Apply 1.25 to 2.50 pounds/acre in a minimum of 20 gallons/acre of water.	Apply as a light cover spray to foliage. Apply at 2-4 week intervals and repeat as needed. Final application amounts depend on plant type, maturity, and application technique/method. Do not apply more than 4 times per crop cycle.
	Ground:	Apply 1.25 to 2.50 pounds/acre in a minimum of 100 gallons/acre of water.	
	Soil Drench	Mix 1.25 to 2.50 pounds in 100 gallons of water.	Apply 0.25-0.5 pints/sq ft (4-8 L/m <sup>3</sup> ) of the diluted mixture. Irrigate sufficiently to wet active root zone. Apply at a 2-4 week interval and repeat as needed. Do not apply more than 4 times per crop cycle.
	Root Dip	Mix a 0.15% solution (20 ounces/100 gallons of water).	Dip transplants into diluted mixture keeping roots submerged for 1 to 2 minutes. Plant within 48 hours. Make a fresh solution daily.
Christmas Trees	Trunk Injection	5.0 lbs/acre immediately after transplanting then 2.5 lbs/acre every 30 days for 3 applications in the active growing season.	
Stem and Canker blight ( <i>Phytophthora ramorum</i> ) i.e. Sudden Oak Death	Tree injection	Make up an 8% w/v solution (10 ounces/gallon of water).	Inject (according to injection equipment instructions) 0.5 fl oz (15 ml) of the diluted Fungi-Phite solution into one injection hole. <b>Dosage:</b> One (1) injection per yard (or meter) of canopy diameter at the drip line. (i.e., a tree with 6 yards (or meters) of canopy diameter will require 6 injections via 6 separate injection holes.) <b>Curative:</b> Inject 2 times per year in the Spring and Fall
	Bark Applications	Mix Fungi-Phite DF and water in a 1: 2 ratio (i.e., 4 pounds of Fungi-Phite DF plus 1 gallon of water) Add to this 3 oz of an organosilicone surfactant.	<b>Preventative:</b> Inject 1 time in the Spring.  Apply the Fungi-Phite solution from the base of the tree to approximately 5 feet (1.5 M) above ground, ensuring complete bark coverage. Spray over active lesions if they are accessible.

**TURF (Warm & Cool Season)\*\*\*, such as**

Golf Course, Athletic Fields, Sod Farms, Residential, Amenity, Commercial and Municipal Lawns.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Pythium</i> sp and <i>Phytophthora</i> (Not for use in California unless accompanied by a supplemental label)	Foliar Spray	Mix 1-1.5 ounces in 1-2 gallons of water.	Begin preventative applications when conditions first favor disease. Apply 1-2 gallons of diluted mixture/1,000 sq ft (4-8 L/100 m <sup>2</sup> ) as a light cover spray. Apply at a 1-4 week interval as needed. Do not mow or irrigate treated area until sprays have completely dried
Pythium Blight		1.5 ounces/1000 sq. ft.	Apply at 7 day intervals
Brown Patch ( <i>Rhizoctonia</i> spp) and Anthracnose ( <i>Collectotrichum</i> ) Suppression		1.5 ounces/1000 sq. ft. Apply at 1.5 gallons of diluted spray mixture per 1000 sq. ft.	Apply at 7 day intervals.  Turf disease management is significantly improved when Fungi-Phite is used at the high labeled rate and is most effectively applied used when tank mixed with other registered fungicides.

**TURF TANK MIXTURES\*\*\***

For suppression or control of summer stress diseases caused by a complex of *Pythium* sp, *Collectotrichum* and *Rhizoctonia* sp. Also for improvement of existing fungicide programs and the minimization of resistance development in pathogenic fungi. Tank mix this product with fungicide from classes of Fungicide as listed below in accordance with the most restrictive label limitations and precautions. Do not exceed label dosage rates. This product cannot be mixed with any product containing a label prohibiting against any such mixing. To determine the compatibility to this fungicide with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to a clean container. Thoroughly mix and let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Complex of <i>Pythium</i> sp, <i>Collectotrichum</i> spp. and <i>Rhizoctonia</i> sp	Tank mix with a registered fungicide for these turf declines such as a dithiocarbamate, a Triazole, a benzimidazole, a strobilurin or a Chloronitrile fungicide.	Follow product label	Follow the most restrictive product label.

**\*Check with your local Extension Agent or Crop Consultant if you are unsure about disease prevention, control or severity/pressure.**

**\*\*Suppression: Fungi-Phite™ has suppressive properties on diseases caused by certain bacteria or fungi. When applying Fungi-Phite™ for disease suppression, use it in combination with another registered bactericide or fungicide registered for the same crops listed on this label.**

**\*\*\*Do not graze livestock or poultry in treated turf areas. Do not feed forage or clippings from treated turf areas to livestock or poultry.**

450948

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a cool, dry place.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment. Triple rinse (or equivalent). Then offer for recycling if available or dispose of empty container in a sanitary landfill, or by incinerator or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY STATEMENT**

PLANT PROTECTANTS, LLC warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions not reasonably foreseeable to seller and to the fullest extent permitted by state law, buyer assumes all risk of any such use.

[Label version 7-8-2010]

460048

**Sub Label C – Agricultural Uses-Post Harvest Application for Potatoes**

**FUNGI-PHITE™ DF**

A Systemic Fungicide for the Suppression and Control of  
Phytophthora, Pythium and Downy Mildew for Potatoes

**ACTIVE INGREDIENTS:**

Mono- and di-potassium salts of Phosphorous Acid\*.....99.0%

**OTHER INGREDIENTS**.....1.0%

**TOTAL**.....100.0%

\* Equivalent to 0.68 pounds Phosphorous Acid per pound

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See [Back] [Side] [Other] Panel for Precautionary Statements

FIRST AID	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the International Poison Center at 1-888-740-8712 for emergency medical treatment information.	

**EPA Reg. No. 83472-**

**EPA Est. No. 73771-CA-1**

Manufactured For:  
Plant Protectants, LLC  
35801 Road 132  
Visalia, CA 93292  
Ph. 559-625-9255

Net Contents \_\_\_\_\_pounds [lbs.]

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

All mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks
- protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USERS SAFETY RECOMMENDATIONS**

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers are to be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notifications, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 4 hours.

For early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, wear coveralls, waterproof gloves, shoes and socks, and protective eyewear.

**General Instructions:** FUNGI-PHITE™ DF Systemic Fungicide can be applied in any aqueous application such as bin washers, dump tanks, soak tanks and pressure washers. When diluted per label mixing instructions, FUNGI-PHITE™ DF is compatible with most post harvest chemicals. For suppression of: Brown Rot (*Phytophthora spp.*) and Phythium storage rots (*Phythium spp.*). Sour Rot (*Geotrichum candidum*), Bitter Rot (*Glomularia spp.*), Blue Mold (*Penicillium italicum*), Green Mold (*Penicillium digitatum*), Anthracnose (*Collectotrichium gleosporoides*), Late Blight (*Phytophthora infestans*) and Pink Rot (*Phytophthora erythroseptica*) particularly when used in combination with other post harvest fungicides.

FUNGI-PHITE™ DF is especially effective in preventing the development of tolerant or resistant strains of fungi when tank mixed with a registered fungicide of a different class of chemistry or when registered chemicals require alternating with a different chemical class. Use a suitable non-ionic surfactant in all post harvest applications.

**Potatoes and Sweet Potatoes/Yams**

DISEASE	APPLICATION RATE	APPLICATION PROGRAM
Suppression of Late Blight ( <i>Phytophthora infestans</i> ) and Pink Rot ( <i>Phytophthora erythroseptica</i> )	Tuber low volume spray: Apply 0.65 -1.0 pounds of FUNGI-PHITE™ DF per ton of tubers in 0.5-1.0 gallon of water as a spray.  Dipping: Make up a 0.5% w/w solution of Fungi-Phite DF (4.0 lbs per 100 gallons of water)	Ensure complete and even coverage. If dipping, ensure that potato tubers are immersed in solution for at least 30 seconds.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a cool, dry place.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment. Triple rinse (or equivalent). Then offer for recycling if available or dispose of empty container in a sanitary landfill, or by incinerator or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY STATEMENT**

PLANT PROTECTANTS, LLC warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions not reasonably foreseeable to seller and to the fullest extent permitted by state law, buyer assumes all risk of any such use.

[Label version 7-8-2010]