

# Agri-Fos®

## SYSTEMIC FUNGICIDE

### For The Effective Control Of:

- Phytophthora Diseases Associated with Sudden Oak Death
- Downy Mildew, Phytophthora & Pythium in Ornamentals & Bedding Plants
- Pythium in Turf



#### Active Ingredients:

Mono- and di-potassium salts of Phosphorous Acid\* ..... 45.8%  
 Other Ingredients: ..... 54.2%  
 Total: ..... 100.0%

\*Contains 5.17 lbs./gallon of the active ingredients, mono- and di-potassium salts of Phosphorous Acid.  
 Equivalent to 3.35 lbs. Phosphorous Acid/gallon.

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EPA Reg. No. 71962-1-54705

EPA Est. No. 48498-CA-1

### NET CONTENTS: 1 Pint/1 Quart/1 Gallon/2.5 Gallons

Manufactured For:  
**LAWN AND GARDEN PRODUCTS, INC.**  
 P.O. Box 35000 • Fresno, CA 93745 • (559) 499-2100  
 www.montereylawngarden.com

## KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If Swallowed:</b>	<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 do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If In Eyes:</b>	<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>
<b>If On Skin Or Clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center of doctor or going for treatment. Hotline Number: National Poison Control, 1-800-222-1222.	

### PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

### ENVIRONMENTAL HAZARDS

**For Terrestrial Use:** To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters to surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product. For use only in home gardens, on home lawns, and on home ornamentals and related home plants.

When using AGRI-FOS® Systemic Fungicide with Pentra-Bark™ adhere to all applicable label directions. Only use Pentra-Bark™ with basal bark or tree injection applications.

### GENERAL APPLICATION INSTRUCTIONS

Apply AGRI-FOS® Systemic Fungicide by various application methods, including foliar spray, soil drench, soil incorporation, basal bark application and bare root dip. For foliar sprays, apply AGRI-FOS® Systemic Fungicide with sufficient water volumes for adequate coverage of foliage, according to plant type and growth stage. To ensure good coverage, spray to wetness, but avoid run-off.

When applying AGRI-FOS® Systemic Fungicide to plant species for the first time, spray a limited number of plants first and wait for 3-7 days. Then check for leaf burn (phytotoxicity).

### MIXING INSTRUCTIONS

1. Fill the spray tank with 1/4 to 1/2 of the volume of water required before adding AGRI-FOS® Systemic Fungicide.
2. Add AGRI-FOS® Systemic Fungicide slowly to the tank and agitate.
3. Fill tank with balance of water to the desired volume.
4. Agitate during application.

Conversion Table			
1/8 fl. oz.	=	3/4 teaspoon (tsp.)	
1/4 fl. oz.	=	1 1/2 tsp.	
1/3 fl. oz.	=	2 tsp.	
1/2 fl. oz.	=	3 tsp.	
2/3 fl. oz.	=	4 tsp.	
3/4 fl. oz.	=	4 1/2 tsp.	
1 fl. oz.	=	2 tablespoons (Tbs.)	= 6 tsp.

### CITRUS, FRUIT, NUT AND VEGETABLE APPLICATIONS

#### APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE\*

Use AGRI-FOS® Systemic Fungicide for effective control of black spot, root and collar rot and fire blight in apples, crab apples, loquats, pears, and quinces.

Disease	Application Method	Rate	Application Program
Apple black spot and scab ( <i>Venturia inaequalis</i> )	Foliar spray	1/2 fl. oz. per gallon of water.	First application at open cluster. Last application at fifth cover or fruit at 2" to 2 1/2" diameter. Total of 10 applications at 10 to 12 day intervals. When conditions are conducive to a black spot outbreak, apply AGRI-FOS® Systemic Fungicide immediately. <b>Note:</b> After 4 or 5 consecutive applications some yellowing of extension growth may be observed. If yellowing occurs use another fungicide until yellowing of leaves disappears.
	Basal bark spray. Apply early spring at bud swell or at silver tip stage of growth.	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Pentra-Bark™ Penetrating Surfactant.	Spray a combination of AGRI-FOS® Systemic Fungicide and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 ft. above the soil line, including the base of the first scaffolding limbs, if present.

			(Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control). Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices.
Root and collar rot ( <i>Phytophthora cactorum</i> )	Foliar Spray	Apply ½ - 1 teaspoon per gallon of water.	One to two month intervals between treatments. Under high disease pressure use higher application rate and shorter spray interval. Ensure thorough coverage.
Fire Blight ( <i>Erwinia amylovora</i> )	Basal bark spray. Apply spring and fall for best results.	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Penetra-Bark™ Penetrating Surfactant	Spray a combination of AGRI-FOS® Systemic Fungicide and Penetra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 ft. above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control).

\*Not for use in California except as basal bark spray on apples and crab apples.

#### ASPARAGUS\*

Use AGRI-FOS® Systemic Fungicide for effective control of crown rot & asparagus spear slime disease in Asparagus crops.

Disease	Application Method	Rate	Application Program
Crown rot & Asparagus spear slime ( <i>Phytophthora spp</i> )	Foliar	1/3 fl. oz. per gallon of water.	Apply to ferns that have 2 to 3 inches of new growth. Do not apply to ferns that are starting to die down (senesce). Established plantings: Start applications when conditions are favorable to disease (cool, wet conditions). Ensure thorough coverage.

\*Not for use in California.

#### AVOCADOS

Use AGRI-FOS® Systemic Fungicide for effective control of root rot, trunk cankers and downy mildew disease in Avocado.

Disease	Application Method	Rate	Application Program
Root rot ( <i>Phytophthora cinnamomi</i> )	Tree injection	Skeletal trees 1 <sup>st</sup> year: ¼ fl. oz. undiluted product per yard of canopy diameter.  Other situations: 1/8 fl. oz. diluted with ½ fl. oz. of water per yard of canopy diameter.	Inject trees at spring flush maturity. Repeat treatment in February or March. Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murf gun, or hydraulic tree injection. Do not prune back trees before injection process as burning of new growth may occur. Do not inject trees in winter months. Do not cut back the canopy of injected trees. Do not add any other material, other than water, to AGRI-FOS® Systemic Fungicide by trunk injection. Do not inject more liquid in a lesser number of syringes than directed.

	Foliar spray	1/3 fl. oz. per gallon of water.	Spray to run off at 2 – 2½ gallons of spray solution per adult tree. Start applications in spring, up to 4 applications a year at two-month intervals. Ensure thorough coverage.
Canker ( <i>Phytophthora citricola</i> )	Trunk spray	8 to 16 fl. oz. with one gallon of water with 1.2 fl. oz. of Penetra-Bark™ Bark Penetrating Surfactant.	Apply to trunk lesions using sufficient spray volume to completely wet the trunk and lesions. If lesions absent, apply to trunk from soil level to two feet up trunk. If lesions present use higher rate.
Downy mildew	Foliar spray	3/4 teaspoon per gallon of water.	Spray to run-off, as required for disease control.

#### BERRIES\*

Use AGRI-FOS® Systemic Fungicide for effective control of root rot in bush and cane berries such as, but not limited to, blueberries, blackberries, loganberries, and raspberries (red, black, hybrids/cultivars).

Disease	Application Method	Rate	Application Program
Root rot ( <i>Phytophthora spp</i> )	Foliar Spray	2 – 6 tsp. per gallon of water. Ensure foliage is completely wet.	New plantings: start application when new growth is 2 to 3 inches long.  Established plantings: start applications when cool wet conditions occur which favor disease.  West of Rocky Mountains: Autumn applications, apply when conditions favor disease, repeat in 4 weeks. Spring applications, first application after bud break and repeat in 4 weeks.  East of Rocky Mountains: First application spring post bud break (2 to 3 inches new growth) and repeat at 50 to 60 day intervals. Do not exceed 4 applications per season.  For blueberries: First application in spring at pink bud and then on a regular schedule of application at two to three week intervals.

\*Not for use in California.

#### BRASSICAS

Use AGRI-FOS® Systemic Fungicide for effective control of downy mildew in brassicas such as, but not limited to, broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, collards, Chinese cabbage, Chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens.

Disease	Application Method	Rate	Application Program
Downy mildew ( <i>Peronospora parasitica</i> )	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water.  California: 1/3 to ½ fl. oz. per gallon of water.	1 to 3 week intervals between applications when conditions favor disease development (cool, moist weather). Use higher rates and shorter intervals when disease pressure increases.

#### CITRUS – Mature trees

Use AGRI-FOS® Systemic Fungicide for effective control of root rot and collar rot diseases in citrus.

Disease	Application Method	Rate	Application Program
Brown rot and foot rot ( <i>Phytophthora spp</i> )	Foliar Spray	1 tsp. per gallon of water.	When conditions favor disease, spray trees to runoff. Ensure even coverage. Do not apply at high temperatures (above 95°F) particularly if humidity is low or to moisture-stressed trees
Root rot and collar rot	Trunk Spray	8 to 16 fl. oz. per gallon of water.	Spray trunk lesions with enough spray volume to ensure lesions

( <i>Phytophthora spp nicotianae</i> and <i>Phytophthora citrophthora</i> )			are completely wet. When disease levels are high, use higher rate.
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## COCONUTS

Use AGRI-FOS® Systemic Fungicide for effective control of bud rot and nut fall in coconuts.

Disease	Application Method	Rate	Application Program
Bud rot – Nut fall ( <i>Phytophthora palmivora</i> )	Injection	1/3 to 1 fl. oz. per tree.	Dilute AGRI-FOS® Systemic Fungicide with water to give final injection volume of 1 fl. oz. to 2 fl. oz. of water and AGRI-FOS® Systemic Fungicide. Inject into the trunk or root system.

## CUCURBITS

Use AGRI-FOS® Systemic Fungicide for effective control of sudden wilt, gummy stem blight, and downy mildew diseases in cucurbits such as, but not limited to, cucumber, Chinese waxgourd, citron melon, gherkin rock melon, honeydew melon, pumpkin, zucchini, watermelon and squash (summer and winter), momordica spp. balsam apple, balsam pear, bitter melon, and Chinese cucumber.

Disease	Application Method	Rate	Application Program
Sudden wilt – Root and fruit rot ( <i>Phytophthora spp</i> )	Foliar Spray	2 to 6 tsp. per gallon of water. Apply 1 fl. oz. per gallon of water (CA only).	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.
Gummy stem blight ( <i>Mycosphaerella melonis</i> )			Apply when disease is evident. Continue applications at 21 day intervals until cure is apparent. Do not exceed 6 applications per season.
Downy mildew ( <i>Pseudoperonospora cubensis</i> )			Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per season.

## FRUITING VEGETABLES\*

Use AGRI-FOS® Systemic Fungicide for effective control of damping-off, root rot, and gummy stem blight diseases in eggplant, tomatoes, tomatillos, and peppers such as, but not limited to, bell, chili, cooking, pimento, and sweet.

Disease	Application Method	Rate	Application Program
Eggplant: <i>Pythium</i> and <i>Phytophthora spp.</i> , and Gummy stem blight ( <i>Mycosphaerella melonis</i> )	Foliar Spray	Apply 1 fl. oz. per gallon of water.  2 tsp. to 2 fl. oz. per gallon of water.	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season. Apply when disease is evident. Continue applications at 21-day intervals until cure is apparent. Do not exceed a total of 6 applications per season.
Peppers: Late blight and root rot ( <i>Phytophthora infestans</i> and <i>Phytophthora infestans</i> and <i>Phytophthora spp.</i> )			First application at transplant or when direct seeded crops are at 2-4 true leaf, then at one to two week intervals as required to control disease. In high disease situations, use higher rates and shorter spray intervals.
Tomatoes/Tomatillos: Late blight and root rot ( <i>Phytophthora infestans</i> and <i>Phytophthora spp.</i> )			First application at transplant or when direct seeded crops are at 2-4 true leaf, then at one to two week intervals as required to control disease. In high disease situations, use higher rates and shorter spray intervals. California: 3 tsp. per gallon of water.

\*Use in California limited to tomatoes and tomatillos.

## GRAPES

Use AGRI-FOS® Systemic Fungicide for effective control of downy mildew diseases in grapes.

Disease	Application Method	Rate	Application Program
Downy mildew ( <i>Pasmopara viticola</i> )	Foliar Spray	½ fl. oz. per gallon of water.	It is essential that the rate of AGRI-FOS® Systemic Fungicide be adjusted to the vine-row volume, i.e., the volume of vine foliage per acre. Spray timing is critical. Apply AGRI-FOS® Systemic Fungicide at times of high disease risk, especially between the time that conditions are conducive to downy mildew infection and the appearance of oil spots. Ensure spray coverage is adequate and that the appropriate rate of AGRI-FOS® Systemic Fungicide is applied to match vine growth, particularly from mid-season onwards, and especially where grapes are grown on root stock.

## HOPS\*

Use AGRI-FOS® Systemic Fungicide for effective control of downy mildew in hops.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar Spray by ground equipment only.	2 to 6 tsp. per gallon of water.	When conditions favor disease, apply when A. Shoots are ½ to 1 foot long. B. Post-training when vines are 6 feet high. C. 21 days post-application (B) D. During bloom

\*Not for use in California.

## LEAFY VEGETABLES\*

Use AGRI-FOS® Systemic Fungicide for effective control of downy mildew in leafy vegetables such as, but not limited to, amaranth, arugula, cardoon, celery, chervil, corn salad, endive, fennel, lettuce, parsley, radicchio, rhubarb, spinach, and Swiss chard. Excludes Brassica vegetables.

Disease	Application Method	Rate	Application Program
Downy mildew ( <i>Bremia lactucae</i> )	Foliar Spray	1-2/3 fl. oz. per gallon of water.	Ensure spray coverage is adequate to wet the whole plant. During warm, wet conditions repeat application at 7 to 10 day intervals, if needed.

\*Use in California limited to lettuce.

## LEGUMES\*

Use AGRI-FOS® Systemic Fungicide for effective control of damping-off and root rot diseases in legumes (succulent and dried) such as, but not limited to, green beans, soybeans, wax beans, field beans, navy beans, lima beans, fava beans, kidney beans, pinto bean, mung beans, broad beans, lentils, chickpeas, English peas, snow peas, sugar snap peas, black-eyed peas, cow peas, and pigeon peas.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium spp.</i>	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

\*Not for use in California.

	Foliar spray	2/3 fl. oz. per gallon of water.	Ensure thorough coverage of plants.
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### MANGOS

Use AGRI-FOS® Systemic Fungicide for effective control of anthracnose in mangos.

Disease	Application Method	Rate	Application Program
Anthracnose ( <i>Colletotrichum gloeosporoides</i> )	Foliar Spray	2 tsp. per gallon of water.	Spray tree every 14 days during blossom period, then monthly until harvest. Spray to the point of runoff.

### NONGRASS ANIMAL FEED\*

Use AGRI-FOS® Systemic Fungicide for effective control of damping-off and root rot diseases in forage crops such as, but not limited to, alfalfa, clover, and vetch.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

\*Not for use in California.

### OKRA\*

Use AGRI-FOS® Systemic Fungicide for effective control of damping-off and root rot diseases in okra.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

\*Not for use in California.

### ONIONS

Use AGRI-FOS® Systemic Fungicide for effective control of downy mildew disease in onions, garlic, shallots, and leeks. Use as a preventative control program for best results.

Disease	Application Method	Rate	Application Program
Downy mildew ( <i>Peronospora destructor</i> )	Foliar Spray	4 tsp. per gallon of water.	As a regular preventative control program or when disease first appears.

### PEANUTS\*

Use AGRI-FOS® Systemic Fungicide for effective control of damping-off and root rot disease in Peanuts.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water.	Apply at 14-day intervals as necessary. Ensure thorough coverage.

\*Not for use in California.

### PINEAPPLES

Use AGRI-FOS® Systemic Fungicide for effective control of *Phytophthora* root and heart rot diseases in Pineapples.

Disease	Application Method	Rate	Application Program
Phytophthora root and heart rot ( <i>Phytophthora cinnamomi</i> and <i>parasitica</i> spp.)	Foliar Spray	1-2/3 to 3-1/3 fl. oz. per gallon of water.	Apply to tops, 14 days prior to harvest of planting material.
	Pre-plant dip	2 tsp. per gallon of water.	Established plantings when conditions favor disease. Apply at 90 day intervals.

## ROOT AND TUBER VEGETABLES\*

Use AGRI-FOS® Systemic Fungicide for effective control of foliar and root rot in ginseng, damping-off and root rot diseases in carrots, and late blight disease and storage diseases such as pink rot and pythium leak in potatoes, sweet potatoes, and yams.

Disease	Application Method	Rate	Application Program
Ginseng: Foliar and root rot ( <i>Phytophthora cactorum</i> )	Foliar Spray	4-1/2 tsp. per gallon of water.	In cool wet conditions that favor <i>Phytophthora</i> , apply at 7 day intervals.  Do not exceed a total of 8 applications per season.
Carrots: <i>Phytophthora</i> and <i>Pythium spp.</i>	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
Potatoes, Sweet Potatoes, Yams: Pink rot and Pythium leak ( <i>Phytophthora erythroseptica</i> and <i>Pythium spp.</i> )	In-furrow Spray	6-1/2 to 16 fl. oz. per gallon of water.	Apply in a band spray directly over top of potato seed just before row is closed.
Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and Pythium leak ( <i>Phytophthora infestans</i> , <i>Phytophthora erythroseptica</i> and <i>Pythium spp.</i> )	Foliar spray	2/3 to 3 tsp. per gallon of water.	Apply at 5 to 14 day intervals subject to disease incidence.

\*Use in California limited to potatoes, sweet potatoes, and yams.

## STONE FRUIT\*

Use AGRI-FOS® Systemic Fungicide for effective control of root, collar rot and almond pruning wound canker disease in stone fruit such as, but not limited to, Sweet and Tart Cherries, Peaches, Plums and fresh Prunes.

Disease	Application Method	Rate	Application Program
Root and collar rot ( <i>Phytophthora spp.</i> )	Foliar Spray	1/3 fl. oz. per gallon of water.	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post harvest
	Basal bark spray. Apply spring and fall for best results.	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Penetra-Bark™ Bark Penetrating Surfactant	Spray a combination of Agri-Fos® Systemic Fungicide and Penetra-Bark™ Bark Penetrating Surfactant around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)
Almond pruning – wound cankers ( <i>Phytophthora syringae</i> )	Pant or Spray	1/3 to 3/4 fl. oz. per gallon of water.	Apply to pruning wound and surrounding area, ensure area is thoroughly wet. In high disease situations use higher rate.

\*Not for use in California.

## STRAWBERRIES

Use AGRI-FOS® Systemic Fungicide for effective control of leather rot, red stele and *Phytophthora* disease in Strawberries.

Disease	Application Method	Rate	Application Program
Red stele ( <i>Phytophthora fragariae</i> )	Preplanting dip	1/3 fl. oz. per gallon of water.	Dip planting material in this solution for 30 minutes, then plant within one day. Use program for annual and perennial varieties.  Annual crops, first treatment 14 to 21 days post planting. Repeat at 1-2 month intervals when disease is present.
	Foliar spray	2 to 6 tsp. per gallon of water.  2 to 3 tsp. per gallon of water (CA only).	Perennial crops, first treatment during spring growth flush, repeat at 1-2 month intervals when disease is evident. For susceptible varieties, use higher rates and shorter spray intervals.
Leather rot ( <i>Phytophthora cactorum</i> )	Foliar spray	2 to 6 tsp. per gallon of water.  2 to 3 tsp. per gallon of water (CA only).	Apply at 10% bloom and early fruit set, then at one to two week intervals as required for disease control. In high disease situations use higher rates and shorter spray intervals.

## TREE NUTS\*

Use AGRI-FOS® Systemic Fungicide for effective control of root and collar rot, and almond pruning-wound canker disease in tree nuts such as, but not limited to, Almonds, Beech nuts, Brazil nuts, Butternuts, Cashews, Chestnuts, Chinquapin, Hazelnuts, Hickory nuts, Madacamia nuts, Pecans, and Walnuts.

Disease	Application Method	Rate	Application Program
Other than macadamia nuts: Root and collar rot ( <i>Phytophthora spp.</i> )	Foliar	2 tsp. per gallon of water.	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post harvest
Other than macadamia nuts: Almond pruning – wound canker ( <i>Phytophthora syringae</i> )	Paint or Spray	4-1/2 tsp. per gallon of water.	Apply to pruning wound and surrounding area, ensure area is thoroughly wet.
Macadamia nuts: Raceme blight ( <i>Phytophthora spp.</i> )	Foliar spray	3 tsp. per gallon of water.	Apply when disease is first seen and reapply at 3 week intervals. Spray to the point of run-off.

\*Not for use in California.

## LANDSCAPE APPLICATIONS\*

Use AGRI-FOS® Systemic Fungicide for effective control of Phytophthora and Pythium spp. and other diseases associated with Sudden Oak Death, Beech Decline, and general tree decline syndromes. Apply AGRI-FOS® Systemic Fungicide to trees such as, but not limited to, Beech, Cedar, Chestnut, Crab Apple, Dogwood, Elm, Fir, Juniper, Linden, Pine, Oaks (Coastal, Live, Shreve, Black, Canyon), Ornamental Pear, Sweet Birch, Sweet Gum, Sycamore, White Pine, White Cedar, and Willow.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label or tree injury may occur. Do not apply to trees that are heat or moisture stressed. Do not apply to trees that are in a state of dormancy. Do not exceed indicated spray intervals or label rates in order to avoid tree injury.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium spp.</i> , and <i>Phytophthora ramorum</i>	Injection	11 fl. oz. per 21 fl. oz. of water or ½ tsp. per tsp. of water	Drill holes 3/16 inch (5 mm) in diameter <u>into live sapwood</u> (depth dependent upon age of tree) with downward angle into trunk uniformly around the tree circumference, using a slow drill. Do not inject into areas of obvious decay, canker or mechanical injury that appear on the tree trunk. Calculate the amount of product required by measuring the trees by one of the following 3 methods, and use the highest calculated number of injections. 1) 1 injection per square yard of canopy; 2) 1 injection per yard of diameter of canopy measured at the dripline; 3) 1 injection per 6 inches of tree trunk circumference measured 4 feet above soil level.  Make injections with applicators that maintain positive pressure differential such as ChemJet®, Sidewinder®, Ag-murph Gun®, Marley® Injector, or hydraulic applicator type equipment that forces solution into the sapwood of the tree.
<i>Phytophthora</i> and <i>Pythium spp.</i> , and <i>Phytophthora ramorum</i>	Basal bark spray (all other tree species). Apply spring and fall for best results or anytime active growth occurs	16 fl. oz. + 16 fl. oz. water + 1 fl. oz. Penta-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used, such as hydraulic sprayers, handheld pump-type sprayers, and backpack sprayers.
<i>Fusarium subglutinans</i> (Pine Pitch Canker)	Basal bark spray	16 fl. oz. + 32 fl. oz. water + 0.54 fl. oz. Penta-Bark™ Bark Penetrating Surfactant	Spray a combination of Agri-Fos® Systemic Fungicide and Penta-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.
<i>Fusarium subglutinans</i> (Pine Pitch Canker) and <i>Gnomonia platani</i> (Sycamore Anthracnose)	Injection	20 ml per tree of 16 fl. oz. Agri-Fos® Systemic Fungicide + 32 fl. oz. water + 0.54 fl. oz. Penta-Bark™ Bark Penetrating Surfactant solution	Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murph gun, or hydraulic tree injection. Trees should be at least 10" diameter at breast height.
Apple black spot and scab ( <i>Venturia inaequalis</i> )	Basal bark spray. Apply in early spring at bud swell or silver tip stage of growth	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Penta-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Can be used as a preventative or curative application for trees listed. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices.

\*Use in California limited to Oaks (Coastal, Live, Shreve, Black, Canyon), Tan Oaks, and other tree species that are host to *P. ramorum*. Applications limited to injection

and basal bark spray of pines, basal bark spray of apples and crabapples, and injection of Sycamores for control of Sycamore anthracnose. Do not apply to any other tree species without consulting the list of *P. ramorum* host species listed at the following website: <http://nature.berkeley.edu/comtf/index.html>. For questions contact your local extension office.

## ORNAMENTAL APPLICATIONS

Use AGRI-FOS® Systemic Fungicide for effective control of Bacterial blight, Downy mildew, *Phytophthora spp.* and *Pythium spp.* diseases, and Sudden Oak Death of ORNAMENTALS in landscapes and interiorscapes. Apply AGRI-FOS® Systemic Fungicide to plants such as, but not limited to, Aglaonema, Anthurium, Aphelandra, Arbovitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Diffenbachia, English ivy, Eucalyptus, Ficus, Hibiscus, Japanese andromeda, Japanese Holly, Leather leaf Fern, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses (container, landscape, mini varieties), Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, and Zygocactus.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy. When applying to indoor plants do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bringing back indoors.

Disease	Application Method	Rate	Application Program
Bacterial blight ( <i>Xanthomonas campestris</i> ) pothovars; diffenbachiae, fici hederae and syngonli	Foliar Spray	2 tsp. to 4 tsp. per gallon of water.	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.
		2½ to 5 tsp. per gallon of water.	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
Downy mildew		2 to 4 tsp. per gallon of water.	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora spp.</i> , <i>Phytophthora ramorum</i> , and <i>Pythium spp.</i>	Soil drench	1/8 tsp. per gallon of water.	Apply each 25 gallons of solution to an area of 100 sq. ft. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil incorporation	1 to 2 pints per cubic yard of soil.	Just prior to potting, mix 1 to 2 pints of AGRI-FOS® Systemic Fungicide into each cubic yard of growing media. If disease pressure is high, make application by foliar spray or soil drench.
	Bare rooted dipping of transplants	2 tsp. per gallon of water.	Immediately before transplanting, dip transplants for two minutes. Keep roots submerged, ensure root mass is thoroughly wet.

## BEDDING PLANTS

Use AGRI-FOS® Systemic Fungicide for effective control of Downy mildew, *Phytophthora spp.* and *Pythium spp.* diseases of BEDDING PLANTS outdoors and in interiorscapes. Apply AGRI-FOS® Systemic Fungicide to plants such as, but not limited to, Ageratum, Algerian Ivy, Anthurium, Artemesia, Aster, Begonia, Baby's Breath, Caladium, Carnation, Chrysanthemum, Columbine, Coleus, Daisy, Delphinium, Easter Lily, English Ivy, Foxglove, Gaillardia, Geranium, Gloxinia, Impatiens, Lavender, Marigold, Petunia, Pansy, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Vinca, Verbena, and Zinnia.

Make applications to outdoor or indoor plants before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. When applying to indoor plants do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bringing back indoors.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar Spray	½ to 1-1/8 fl. oz. per gallon of water.	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora spp.</i> , and <i>Pythium spp.</i>	Foliar Spray	2 to 4 tsp. per gallon of water.	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Note: Do not apply more than 500 gallons of spray solution per acre (11.5 gals. per 1,000 sq. ft.)

## CONIFERS\*

Use AGRI-FOS® Systemic Fungicide in conjunction with good cultural management practices for effective control of root rot (*Phytophthora spp.*) in CONIFERS including, but not limited to, Pines, Spruce and Douglas Fir. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to Conifers that are moisture or heat stressed.

Disease	Application Method	Rate	Application Program
<i>Phytophthora spp.</i>	Foliar spray	2 to 4 tsp. per gallon of water.	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	2 to 4 tsp. per gallon of water.	Apply one gallon of solution per sq. yd. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.
	Bare root dipping at transplanting	2 tsp. per gallon of water.	Immediately before transplanting, dip transplants for two minutes; keep roots submerged and ensure root mass is thoroughly wet.
<i>Fusarium subglutinans</i> (Pine Pitch Canker)	Basal bark spray. Apply any time active growth occurs	16 fl. oz. + 32 fl. oz. of water + 0.54 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used such as hydraulic sprays, handheld pump-type sprayers, and backpack sprayers.
<i>Fusarium subglutinans</i> (Pine Pitch Canker)	Injection	20 ml per tree of 16 fl. oz. of Agri-Fos® Systemic Fungicide + 32 fl. oz. water + 0.54 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant solution	Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murf gun, or hydraulic tree injection. Trees should be at least 10" diameter at breast height.

\*Use in California limited to injection and/or basal bark spray of Pines.

## TURF

Use AGRI-FOS® Systemic Fungicide for effective control of *Pythium* and damping-off diseases of turf grasses. When conditions favor disease, begin preventative applications and repeat at indicated intervals. Use higher rate of application when disease pressure is severe.

Disease	Application Method	Rate	Application Program
<i>Pythium</i>	Foliar Spray	5 to 10 fl. oz. per 1,000 sq. ft.	Apply indicated quantity of product in 1 to 5 gallons of water per 1,000 sq. ft. Ensure foliage is thoroughly wet. Application intervals: 14 to 21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.

## **STORAGE AND DISPOSAL**

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

### **PESTICIDE STORAGE:**

Keep this product in containers stored upright and secured with the original closure. Do not store this product near any heat source. Do not store near strong oxidants. If transfer to another container becomes necessary, ensure that the container is clearly labeled, the container is a type suitable for the product, and is clean and free of other materials.

### **DISPOSAL:**

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## **WARRANTY AND DISCLAIMER**

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