

AGRI-FOS[®]

400

FOR RESIDENTIAL USE ONLY

SYSTEMIC FUNGICIDE FOR THE EFFECTIVE CONTROL OF VARIOUS PLANT DISEASES INCLUDING BLACK SPOT OR SCAB IN APPLE, ROOT ROT IN AVOCADO, BUD ROT AND NUT FALL IN COCONUT, ROOT ROT IN CITRUS AND CUCURBITS, DOWNY MILDEW IN CUCURBITS, GRAPE, LETTUCE, AND ONION, ANTHRACNOSE IN MANGO, ROOT AND HEART ROT IN PINEAPPLE, LATE BLIGHT IN POTATO, ROOT AND COLLAR ROT IN STONEFRUIT, LEATHER ROT AND PHYTOPHTHORA DISEASES IN STRAWBERRY, LATE BLIGHT IN TOMATO, DOWNY MILDEW, PHYTOPHTHORA & PYTHIUM IN ORNAMENTALS, INTERIORSAPES, BEDDING PLANTS, VEGETABLE TRANSPLANTS, AND HERBS AND SPICES, PHYTOPHTHORA AND FUSARIUM IN CONIFERS, PYTHIUM IN TURF AND LAWNS IN ALL AREAS, AND PHYTOPHTHORA AND PYTHIUM DISEASES ASSOCIATED WITH STEM AND CANCKER BLIGHT (SUDDEN OAK DEATH) AND GENERAL BEECH DECLINE AND VARIOUS TREE STEM CANKERS AND PHLOEM CANKERS.

[FOR USE ON: ORNAMENTALS, TURF, FRUIT & MORE, AS LISTED]

[CONTROLS DAMPING-OFF AND ROOT ROT IN FRUITING VEGETABLES, ORNAMENTALS, AND BEDDING PLANTS, AS LISTED.]

[CONTROLS: ROOT ROT, DOWNY MILDEW, FIRE BLIGHT, BLACK SPOT & MORE, AS LISTED]

ACTIVE INGREDIENTS: Mono- and di-potassium salts of Phosphorous Acid*

45.8%

OTHER INGREDIENTS:

54.2%

TOTAL:

100%

*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

KEEP OUT OF REACH OF CHILDREN CAUTION

Consult page 2 of this booklet for First Aid and Precautionary Statements

Batch No:

Date of

Manufacturer:

EPA Est. No. 71962-AUS-001

72499-GA-001

71975-WA-001

68253-CO-001

Manufactured for:
LIQUID FERTILISER PTY. LTD. (Trading as Agrichem)
320-222-3026

EPA Reg. No. 71962-1

PERIOD 2015-20 LIC. NO.

8953.5

NET CONTENTS:

- 1 Pint
- 2 Quarts
- 1 Gallon



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Department of Agriculture
STATE OF HAWAII

LICENSED

FIRST AID

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice
- Have person sip a glass of water if able to swallow
- Do not induce vomiting unless told to do so by a poison control center or doctor
- Do not give anything to an unconscious person

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye
- Call poison control center or doctor for treatment advice

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing
- Rinse skin immediately with plenty of water for 15-20 minutes
- Call a poison control center or doctor for treatment advice

IF INHALED:

- Move person to fresh air
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible
- Call a poison control center or doctor for further treatment advice

Have the product container or label with you when calling a poison control center or 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 and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

For Terrestrial Use: To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or 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® 400 with Supa Stik PN adhere to all applicable label directions. Only use Supa Stik PN with basal bark applications.

GENERAL APPLICATION INSTRUCTIONS

Apply AGRI-FOS® 400 by various application methods, including foliar spray, soil drench, soil incorporation, basal bark application and bare root dip. For foliar sprays, apply AGRI-FOS® 400 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. Harvest when dry. When applying AGRI-FOS® 400 to plant species for the first time, spray a limited number of plants first and wait for 3 days. Then check for leaf burn (phytotoxicity).

MIXING INSTRUCTIONS

1. Fill the spray tank with $\frac{1}{4}$ - $\frac{1}{2}$ of the volume of water required before adding AGRI-FOS® 400
2. Add AGRI-FOS® 400 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.	=	$\frac{3}{4}$ teaspoon (tsp.)			
$\frac{1}{4}$ fl. oz.	=	1 $\frac{1}{2}$ tsp.			
$\frac{1}{3}$ fl. oz.	=	2 tsp.			
$\frac{1}{2}$ fl. oz.	=	3 tsp.			
$\frac{2}{3}$ fl. oz.	=	4 tsp.			
$\frac{3}{4}$ fl. oz.	=	4 $\frac{1}{2}$ tsp.			
1 fl. oz.	=	2 tablespoons (Tbs.)	=		6 tsp.

CITRUS, FRUIT, NUT AND VEGETABLE APPLICATIONS

APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE*

Use AGRI-FOS® 400 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 (Venturia inaequalis)	Foliar spray	3-4 tsp. per gallon of water	Apply at $\frac{1}{4}$ - $\frac{1}{2}$ inch green tip through first cover at 7 to 10 day intervals or according to forecasted infection events. Continue with AGRI-FOS® 400 and Captan in the remaining applications.
Apple black spot and scab (Venturia inaequalis)	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. Supa Stik PN Bark Penetrating Surfactant	Spray a combination of AGRI-FOS® 400 and Supa Stik PN 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). 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.

APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE* Continued

Disease	Application Method	Rate	Application Program
Root and collar rot (Phytophthora cactorum) Fire Blight (Erwinia amylovora)	Foliar spray	2½-5 tsp. per gallon of water	Thorough spray coverage of plant is required. Start applications when conditions favor disease development. Apply at one to two month intervals. Use the low rate on the shorter interval and the high rate on the longer interval.
	Basal bark spray apply spring and fall for best results	16 fl. oz. 16 fl. oz. of water + 1 fl. oz. Supa Stik PN Bark Penetrating Surfactant	Spray a combination of AGRI-FOS® 400 and Supa Stik PN 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.)

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

ASPARAGUS*

Use AGRI-FOS® 400 for effective control of crown rot & asparagus spear slime disease in asparagus crops.

Disease	Application Method	Rate	Application Program
Crown rot & Asparagus spear slime (Phytophthora spp)	Foliar spray	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® 400 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 1st 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, Smart Shot injector, 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 material, other than water, to AGRI-FOS® 400 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 Supa Stik PN 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	¾ teaspoon per gallon of water	Spray to run-off, as required for disease control

BERRIES*

Use AGRI-FOS® 400 for effective control of root rot, general leaf and berry diseases such as those caused by *Septoria* spp., and downy mildew, and for suppression of *Anthraco* spp. in bush and cane berries such as, but not limited to, bingleberries, blackberries, black satin berries, blueberries, boysenberries, Cherokee blackberries, Chesterberries, Cheyenne blackberries, coryberries, cranberries, darrowberries, dewberries, Dirksen thornless berries, elderberries, Himalayaberries, huckleberries, hullberries, Lavacaberries, loganberries, lowberries, lucretiaberrys, mammoth blackberries, marionberries, mulberries, nectarberries, olallieberries, Oregon evergreen berries, raspberries (red, black, hybrids/cultivars), and youngberries.

BERRIES* Continued

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora spp.)	Foliar spray	2-6 tsp. per gallon of water. Ensure foliage is completely wet.	<p>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.</p> <p>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.</p> <p>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 growing season.</p> <p>For blueberries - First application in spring at pink bud and then on a regular schedule of application at two to three intervals.</p>
General leaf and berry diseases such as those caused by Septoria spp and Anthracnose spp	Root dip	Mix a 2.5% v/v solution (3 fl. oz./1 gallon 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.
Downy mildew	Foliar spray	2 to 4 tsp. per gallon of water	<p>Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 3 week intervals. Do not apply more than 6 times per growing season.</p> <p>High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.</p> <p>AGRI-FOS® 400 is best when used in combination with conventional registered fungicides to increase the performance of the disease control program.</p>

*Not for use in California

BRASSICAS*

Use AGRI-FOS® 400 for effective control of downy mildew, damping-off, root rot, bacterial, and fungal diseases 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.

BRASSICAS* Continued

Disease	Application Method	Rate	Application Program
Root rot and damping off (Phytophthora spp and Pythium spp)	Foliar spray Pre-plant seedling nursery treatment Transplant and furrow application	1 to 2 fl. oz. per gallon of water 2 tsp. in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting 3 pints at planting or to newly planted seedlings by side dressing	Begin application after plants are established and conditions favor disease development. Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Downy mildew (Peronospora parasitica)	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.
Diseases caused by Septoria, Collectotrichum, Alternaria, and powdery mildew	Foliar spray, ground	1 to 2 fl. oz. per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

* Use in California limited to control of downy mildew.

CITRUS - Mature trees

Use AGRI-FOS® 400 for effective control of root rot and collar rot diseases in citrus.

Disease	Application Method	Rate	Application Program
Brown rot and foot rot (Phytophthora spp)	Foliar spray	1 teaspoon per gallon of water	When conditions favor disease. Spray trees to run off. 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 (Phytophthora spp nicotianae and Phytophthora citrophthora)	Trunk spray	8 to 16 fl. oz. per gallon of water with ¼ to ½ fl. oz. of Supa Stik PN Bark Penetrating Surfactant	Spray trunk lesions with enough spray volume to ensure lesions are completely wet. When disease levels are high, use higher rate.

CITRUS - Mature trees Continued

Disease	Application Method	Rate	Application Program
* Pre-harvest blue and green mold and brown rot (Phytophthora citricola)	Foliar spray, ground	4 tsp. per gallon of water	Apply 2 to 4 weeks prior to harvest. Ensure fruit is thoroughly covered by the spray application.

*Not for use in California

COCONUTS

Use AGRI-FOS® 400 for effective control of bud rot and nut fall in coconuts.

Disease	Application Method	Rate	Application Program
Bud rot – Nut fall (Phytophthora palmivora)	Injection	1/3 to 1 fl. oz. per tree	Dilute AGRI-FOS® 400 with water to give final injection volume of 1 fl. oz. to 2 fl. oz. of water and AGRI-FOS® 400. Inject into the trunk or root system.

CUCURBITS

Use AGRI-FOS® 400 for effective control of sudden wilt, gummy stem blight, downy mildew, powdery mildew, Alternaria leaf blight, and bottom soft root complex, and for suppression of Anthracnose 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 (Phytophthora spp)	Foliar spray	2-6 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 (Mycosphaerella melonis)			Apply when disease is evident. Continue applications at 21 day intervals until cure is apparent. Do not exceed a total of 6 applications per growing season.
Downy mildew (Pseudoperonospora cubensis)			Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per growing season.
* Powdery mildew and other leaf diseases such as Anthracnose and Alternaria leaf blight	Foliar spray	2 to 3 fl. oz. per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

CUCURBITS Continued

Disease	Application Method	Rate	Application Program
* Bottom soft rot complex	Foliar spray	4-5 tsp. per gallon of water	Apply after fruit set and during bulking 3 times during the growing season.

*Not for use in California

FRUITING VEGETABLES*

Use AGRI-FOS® 400 for effective control of damping-off, root rot, gummy stem blight diseases, bacterial diseases, downy mildew, powdery mildew, and Alternaria leaf blight, and for suppression of Anthracnose 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: Pythium and Phytophthora spp. and Gummy stem blight (Mycosphaerella melonis)	Foliar spray	Apply 1 fl. oz. per gallon of water.	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per growing 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 growing season.
Peppers: Late blight and root rot (Phytophthora infestans and Phytophthora spp)		2 tsp. to 2 fl. oz. per gallon of water	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 (Phytophthora infestans and Phytophthora spp)		2 tsp. to 2 fl. oz. per gallon of water California: 3 tsp. per gallon of water	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.
Root rot and damping off (Phytophthora spp and Pythium spp)	Foliar spray	1 to 2 fl. oz. per gallon of water	Begin application after plants are established and conditions favor disease development. Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Bacterial diseases	Pre-plant seedling nursery treatment	1 tsp in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
	Transplant and furrow application	3 pints at planting or to newly planted seedlings by side dressing	For control of bacterial leaf spot of tomatoes, apply the high rate of AGRI-FOS® 400 with registered bactericides.

FRUITING VEGETABLES* Continued

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray	1 to 2 fl. oz. per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Powdery mildew and other leaf diseases such as Anthracnose and Alternaria leaf blight	Foliar spray	1 to 2 fl. oz. per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

*Use in California limited to control of late blight and root rot in tomatoes and tomatillos.

GRAPES*

Use AGRI-FOS® 400 for effective control of root rot, downy mildew, and powdery mildew diseases in grapes.

Disease	Application Method	Rate	Application Program
Downy mildew (Plasmopara viticola)	Foliar spray	½ fl. oz per gallon of water	It is essential that the rate of AGRI-FOS® 400 be adjusted to the vine-row volume, i.e., the volume of vine foliage per acre. Spray timing is critical. Apply AGRI-FOS® 400 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® 400 is applied to match vine growth, particularly from mid-season onwards, and especially where grapes are grown on root stock.

GRAPES* Continued

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium root rots	Foliar spray	1 to 1½ fl. oz. per gallon of water	<p>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.</p> <p>Table Grapes: Begin application in the Spring at the 4 to 6 inch shoot stage. Continue applications at 1 to 2 week intervals until flowering. Resume applications in the Fall after harvest. Do not apply more than 4 times per growing season.</p> <p>Wine and Raisin Grapes: Begin applications in the Spring at the 4 to 6 inch shoot stage. Continue applications at 1 to 2 week intervals through flowering. Do not apply more than 4 times per growing season.</p>
Downy mildew	Foliar spray	1 to 1½ fl. oz. per gallon of water AGRI-FOS® 400 is most effectively applied to control downy mildew when mixed with other registered fungicides.	Apply at bud break with additional applications at 7 to 10 day intervals in a rotational program with other registered fungicides. Use higher rate and volume based on disease severity and density of canopy. Do not apply more than 6 times per growing season.
Powdery mildew	Foliar spray	2 to 3 fl. oz. per gallon of water	<p>Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.</p> <p>High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.</p>

* Use in California limited to control of downy mildew.

HERBS AND SPICES*

Use AGRI-FOS® 400 for effective control of Downy mildew, Phytophthora spp and Pythium spp diseases of Herbs and Spices grown in fields, nurseries and greenhouses. Apply AGRI-FOS® 400 to plants such as, but not limited to, Anise, Balm, Basil, Chamomile, Caraway, Catnip, Celery, Chives, Coriander, Cumin, Curry Leaf, Dill, Fennel, Marjoram, Mint, Nasturtium, Rosemary, Sage, Savory, Sweet Bay, Tarragon, Thyme, and Wintergreen.

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.

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.
Phytophthora spp and Pythium spp	Foliar spray	2-4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	1/8 tsp. per gallon of water	Apply each gallon of solution to an area of 4 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.

*Not for use in California

HOPS*

Use AGRI-FOS® 400 for effective control of downy mildew in hops.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray by ground equipment only.	2-6 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® 400 for effective control of root rot, damping-off, downy mildew, powdery mildew, and other fungal leaf diseases, and for suppression of Anthracnose in leafy vegetables such as, but not limited to, amaranth, arugula, cardoon, celery, chervil, chrysanthemum, corn salad, cress, dandelion, dock, endive, fennel, lettuce, orach, parsley, purslane, radicchio, rhubarb, spinach, and Swiss chard. Excludes Brassica vegetables.

Disease	Application Method	Rate	Application Program
Downy mildew (Bremia lactucae)	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.

LEAFY VEGETABLES* Continued

Disease	Application Method	Rate	Application Program
Root rots and damping off (Phytophthora and Pythium spp)	Foliar spray Pre-plant nursery application	1 to 1½ fl. oz. per gallon of water 2 tsp. in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	Begin application after plants are established and conditions favor disease development. Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Powdery mildew and leaf diseases such as Anthracnose (Collectotrichum spp), leaf blights (Septoria and Cercospora spp), and bacterial rots (Erwinia spp)	Foliar spray, ground	1½ to 2 fl. oz. per gallon of water	

*Use in California limited to control of downy mildew in lettuce.

LEGUMES*

Use AGRI-FOS® 400 for effective control of damping-off, root rot, Fusarium, Rhizoctonia, downy mildew, powdery mildew, and other fungal leaf diseases, and for suppression of Anthracnose 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
Phytophthora and Pythium spp Fusarium and Rhizoctonia	Foliar spray Pre-plant nursery application Transplant and furrow application	1 to 2 quarts in 30 to 50 gallons of water per acre 2 tsp. in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting 3 pints at planting or to newly planted seedlings by side dressing	Apply at crop emergence or during periods of crop stress caused by Summer Stress Syndrome or by wet conditions that favor disease development. Begin application after plants are established and conditions favor disease development. Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Downey mildew	Foliar spray, ground	1 to 2 fl. oz. per gallon of water	Low Disease Pressure: 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 growing season. High Disease Pressure: 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 growing season.

LEGUMES* Continued

Disease	Application Method	Rate	Application Program
Powdery mildew and leaf diseases such as Anthracnose (<i>Collectotrichum</i> spp), leaf blights (<i>Septoria</i> and <i>Cercospora</i> spp), and bacterial rots (<i>Erwinia</i> spp)	Foliar spray, ground	2 to 3 fl. oz. per gallon of water	Low Disease Pressure: 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 growing season. High Disease Pressure: 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 growing season.

*Not for use in California

MANGOS

Use AGRI-FOS® 400 for suppression 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 run-off.

MICELLANEOUS CROPS*

Use AGRI-FOS® 400 for effective control of damping-off, root rot, downy mildew, powdery mildew, and other bacterial and leaf diseases, and for suppression of Anthracnose in coffee, okra, papaya, and persimmon.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp	Foliar spray	2 to 4 tsp. per gallon of water	Begin application after plants are established and conditions favor disease development. Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
	Root dip	Mix a 0.25% v/v solution (1/3 fl. oz. with 1 gallon of water)	Apply as pre-plant dip to transplants immediately prior to planting. Dip plants momentarily and plant within 48. Mix a fresh solution daily.

MICELLANEOUS CROPS* Continued

Disease	Application Method	Rate	Application Program
Downey mildew	Foliar spray	2 to 6 tsp. per gallon of water	Low Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: 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 growing season.
Powdery mildew	Foliar spray	2 to 6 tsp. per gallon of water	Low Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: 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 growing season.
Pseudomonas garcae	Foliar spray	Mix a 0.50% v/v solution (4 tsp. per gallon of water)	Apply prior to onset of disease. Apply spray to saturation or runoff.

*Not for use in California.

ONIONS

Use AGRI-FOS® 400 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 (Peronospora destructor)	Foliar spray	4 tsp. per gallon of water	As a regular preventative control program or when disease first appears.

PEANUTS*

Use AGRI-FOS® 400 for effective control of damping-off and root rot disease and for suppression of Anthracnose in peanuts.

Disease	Application Method	Rate	Application Program
Root rots, pod rots, damping off, wilt (Phytophthora and Pythium spp)	Foliar spray	4 to 5 tsp. per gallon of water	Begin application after plants are established and conditions favor disease development.
Leaf and crown diseases, Anthracnose (Collectothricum)	Transplant and furrow application	3 pints at planting or to newly planted seedlings by side dressing or shank application	Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

*Not for use in California

PINEAPPLES

Use AGRI-FOS® 400 for effective control of Phytophthora root and heart rot diseases in pineapples.

Disease	Application Method	Rate	Application Program
Phytophthora root and heart rot (Phytophthora cinnamomi and parasitica 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.
	Foliar spray	2/3 fl. oz. per gallon of water	Ensure thorough coverage of plants.

ROOT AND TUBER VEGETABLES

Use AGRI-FOS® 400 for effective control of foliar and root rot in ginseng, damping-off and root rot diseases in carrots, late blight disease and storage diseases such as pink rot and pythium leak, and downy mildew in potatoes, sweet potatoes, and yams.

Disease	Application Method	Rate	Application Program
* Ginseng: Foliar and root rot (Phytophthora cactorum)	Foliar spray	4½ tsp. per gallon of water	In cool wet conditions that favor Phytophthora. Apply at 7 day intervals. Do not exceed a total of 8 applications per season.
* Carrots: Phytophthora and Pythium 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.
Potatoes, Sweet Potatoes, Yams: Pink rot and Pythium leak (Phytophthora erythroseptica and Pythium spp)	In-furrow spray	6½ to 16 fl. oz. per gallon of water	Apply in a band spray directly over top of potato seed just before row is closed.

ROOT AND TUBER VEGETABLES Continued

Disease	Application Method	Rate	Application Program
Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and Pythium leak (Phytophthora infestans, Phytophthora erythroseptica and Pythium spp)	Foliar spray	2/3 to 3 tsp. per gallon of water	Apply at 5 to 14 day intervals subject to disease incidence.
* Downy mildew	Foliar spray	1 to 2 fl. oz. per gallon of water	Low Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: 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 growing season.

*Not for use in California

STONE FRUIT*

Use AGRI-FOS® 400 for effective control of root, collar rot, almond pruning wound, and various canker disease in stone fruit such as, but not limited to, apricots, sweet and tart cherries, nectarines, peaches, plums, and fresh prunes.

Disease	Application Method	Rate	Application Program
Root and collar rot (Phytophthora spp)	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. Supa Stik PN Bark Penetrating Surfactant	Spray a combination of AGRI-FOS® 400 and Supa Stik PN 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 (Phytophthora syringae)	Paint or spray	1/3 to ¾ 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.

STONE FRUIT* Continued

Disease	Application Method	Rate	Application Program
Suppression of armillaria root rot (Armillaria luteobublina)	Basal bark spray	1½ to 2 quarts + 2 quarts water + 1% Supa Stik PN Bark Penetrating Surfactant	Spray a combination of AGRI-FOS® 400 and Supa Stik PN 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. For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Armillaria root rot, make a fall application prior to leaf senescence and a spring application for best results. For trees less than 18 inches DBH, make an early spring application.

*Not for use in California

STRAWBERRIES*

Use AGRI-FOS® 400 for effective control of leather rot, red stele, Phytophthora, foliar and bacterial disease in strawberries and suppression of powdery mildew.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp (red stele, leather rot, and root rot)	Pre-planting 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
Suppression of rhizopus	Foliar spray	2 to 6 tsp. per gallon of water	Annual crops, first treatment 14 to 21 days post planting, repeat at 1-2 month intervals when disease is evident. 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. For leather rot, apply at 10% bloom and early fruit set, then 1 to 2 week intervals as required for disease control. In high disease situations, use higher rate and shorter spray intervals. Grey mold and Anthracnose suppression using AGRI-FOS® 400 requires use of high application rates and is most effective when tank mixed with other registered fungicides.
	Transplant and furrow application	3 pints at planting or to newly planted seedlings by side dressing or shank application	
Phytophthora spp	Dip	Mix a 0.25% v/v solution (1/3 fl. oz. with 1 gallon of water)	Dip runners in the solution for 1 to 2 minutes. Plant within 48 hours. Mix a fresh solution daily.

STRAWBERRIES* Continued

Disease	Application Method	Rate	Application Program
Suppression of powdery mildew	Foliar spray	1 to 1½ fl. oz. per gallon of water	<p>Low Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.</p> <p>High Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.</p>

* Use in California limited to control of red stele, leather rot, and root rot.

TREE NUTS*

Use AGRI-FOS® 400 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, macadamia nuts, pecans, pistachios, and walnuts.

Disease	Application Method	Rate	Application Program
Other than macadamia nuts: Root and collar rot (Phytophthora spp)	Foliar spray	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 (Phytophthora syringae)	Paint or spray	4½ tsp. per gallon of water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet.
Macadamia nuts: Raceme blight (Phytophthora spp)	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.
Root rot, crown rot, trunk cankers, foliar blights (Phytophthora and Pythium spp)	Foliar spray	4 to 5 tsp. per gallon of water	<p>Begin application after plants are established and conditions favor disease development.</p> <p>Low Disease Pressure: Apply lower rate at 3 month intervals. Do not apply more than 4 times per growing season.</p> <p>High Disease Pressure: Apply higher rate at monthly intervals. Do not apply more than 4 times per growing season.</p>
	Root dip	Mix a 0.5% v/v solution (4 tsp. in 1 gallon of water)	Dip roots in the solution for 30 seconds. Plant within 48 hours. Mix a fresh solution daily.

TREE NUTS* Continued

Disease	Application Method	Rate	Application Program
Pecan scab	Foliar spray	1½ fl. oz. per gallon of water	Apply preventatively at 21 to 30 day intervals.
Pruning wound, crown and trunk cankers (Phytophthora spp)	Trunk spray	1½ quarts + 2 quarts of water + 1% Supa Stik PN Bark Penetrating Surfactant	Apply higher rate when lesions are present. Clean wound sites and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. Apply to the trunk from the soil line to 5 feet up the trunk. Apply one time in the Spring, Summer, and Fall.
Downy mildew (Phytophthora and Peronospora spp) Powdery mildew	Foliar spray	2 to 4 tsp. per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Tree cankers	Basal bark spray	1½ to 2 quarts + 2 quarts of water + 1% Supa Stik PN Bark Penetrating Surfactant	Spray a combination of AGRI-FOS® 400 and Supa Stik PN 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. For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Armillaria root rot, make a fall application prior to leaf senescence and a spring application for best results. For trees less than 18 inches DBH, make an early spring application.

*Not for use in California

LANDSCAPE APPLICATIONS*

Use AGRI-FOS® 400 for effective control of Phytophthora and Pythium spp and other diseases associated with Sudden Oak Death, Beech Decline, and general tree decline syndromes, and for suppression of Anthracnose and Verticillium wilt. Apply AGRI-FOS® 400 to trees such as, but not limited to, Ash, Azalea, Beech, Black Locust, Buckeye, Catalpa, Cedar, Cherry – Stonefruits, Chestnut, Coffee Tree, Crab Apple, Cork Tree, Dogwood – All, Elder, Elm, Fir, Hawthorne, Honey Locust, Juniper, Lilac, Linden, Magnolia, Maples – All, Pine, Oaks – All, Olives, Ornamental Pear, Plum, Pyracantha, RedBud, Smoke Tree, Sumac, Sweet Birch, Sweet Gum, Sycamore, Viburnum, 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.

LANDSCAPE APPLICATIONS* Continued

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp. and Phytophthora ramorum	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 into live sapwood (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 drip-line; 3) 1 injection per 6 inches of 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, Smart Shot injector, or hydraulic applicator type equipment that forces solution into the sapwood of the tree.
Phytophthora and Pythium spp. and Phytophthora ramorum	Basal bark spray (all other tree species) apply spring and fall for best results or anytime active growth occurs. Best for thin bark trees such as maples, lindens, sycamores, and dogwoods.	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Supa Stik PN 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.
Fusarium subglutinans (Pine Pitch Canker)	Basal bark spray (Pines). Apply anytime active growth is observed.	16 fl. oz. AGRI-FOS® 400 + 32 fl. oz. water + 0.5 fl. oz. of Supa Stik PN Bark Penetrating Surfactant	Spray a combination of AGRI-FOS® 400 and Supa Stik PN 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.)

LANDSCAPE APPLICATIONS* Continued

Disease	Application Method	Rate	Application Program
Fusarium subglutinans (Pine Pitch Canker) and Gnomonia platani (Sycamore Anthracnose)	Injection	4 tsp per tree of 16 fl. oz. AGRI-FOS® 400 + 32 fl. oz. of water + 0.5 fl. oz. of Supa Stik PN 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, Smart Shot injector, or hydraulic tree injection. Trees should be at least 10" diameter at breast height.
** Suppression of Anthracnose	Foliar spray, ground	3-4 tsp. per gallon of water	Apply at pre bloom (bud swell or green tip stage) with a supplemental application 14 days later with AGRI-FOS® 400 or other fungicide compound with efficacy on Anthracnose.
** Suppression of Anthracnose	Basal bark spray apply early spring at bud swell until green tip stage of growth	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Supa Stik PN Bark Penetrating Surfactant	Spray a combination of AGRI-FOS® 400 and Supa Stik PN 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. For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Anthracnose, make a fall application prior to leaf senescence and a spring application for best results. For trees less than 18 inches DBH, make an early spring application.
** Suppression of Verticillium wilt	Foliar spray	3-4 tsp. per gallon of water	For trees previously identified with infections, apply first application pre-bloom. Repeat applications between 21 to 30 days.
** Suppression of Verticillium wilt	Basal bark spray	1½ to 2 quarts + 2 quarts of water + 2 fl. oz. Supa Stik PN Bark Penetrating Surfactant	Spray a combination of AGRI-FOS® 400 and Supa Stik PN 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. For large trees larger than 24 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Verticillium wilt, make a fall application prior to leaf senescence and a spring application for best results. For trees less than 24 inches DBH, make an early spring application.

LANDSCAPE APPLICATIONS* Continued

*Use in California limited to Oaks (Coastal, Live, Shreve, Black, Canyon), Tan Oaks, and other tree species that are host to *P. ramorum*. 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/comf/index.html>. Make applications by injection and basal bark spray of pines, basal bark spray of apples and crabapples, and injection of Sycamores for control of Sycamore anthracnose. For questions contact your local extension office.

** Not for use in California.

ORNAMENTAL APPLICATIONS

Use AGRI-FOS® 400 for effective control of Bacterial blight, Downy mildew, powdery mildew, Phytophthora spp [Root Rot], and Pythium spp [Damping-off] diseases, and Sudden Oak Death, and for suppression of Anthracnose of Ornamentals in landscapes and interiorscapes. Apply AGRI-FOS® 400 to plants such as, but not limited to, Aglaonema, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattleya 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: <i>dieffenbachiae</i> , <i>fici</i> <i>hederae</i> and <i>syngonli</i>	Foliar spray	2-4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days Repeat as required.
* Black spot (<i>Diplocarpon</i> spp)	Foliar spray	2-4 tsp. per gallon of water	Apply uniformly to foliage preventatively or at first sign of disease.
Downy mildew	Foliar spray	2-4 tsp. per gallon of water	Apply uniformly to foliage at disease onset and repeat applications every 14 days.
Phytophthora spp [Root Rot], Phytophthora ramorum, and Pythium spp [Damping-off]	Foliar spray	2-4 tsp. per gallon of water	Apply uniformly to foliage to point of runoff.
	Soil drench	Mix a 0.5% to 1.0% v/v solution (½ to 6½ fl. oz. in 1 to 5 gallons of water)	Apply uniformly to soil at base of plant and surrounding soil.
	Soil incorporation	1-2 pints per cubic yard of soil	Just prior to potting, mix 1 to 2 pts of AGRI-FOS® 400 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.
* Powdery mildew	Foliar spray	2 to 4 tsp. per gallon of water	Apply uniformly to foliage at disease onset and repeat applications every 14 days.

ORNAMENTAL APPLICATIONS Continued

Disease	Application Method	Rate	Application Program
* Suppression of Anthracnose	Foliar spray	1½ fl. oz. per gallon of water	Apply prior to onset of disease. Apply spray to saturation or runoff.

*Not for use in California

RESIDENTIAL NURSERY, GREENHOUSE, AND BEDDING PLANTS

Use AGRI-FOS® 400 for effective control of Downy mildew, Phytophthora spp [Root Rot] and Pythium spp [Damping-off] diseases of BEDDING PLANTS and in interiorscapes. Apply AGRI-FOS® 400 to plants such as, but not limited to, Ageratum, Aglaonema, Algerian Ivy, Anthurium, Aphelandra, Arborvitae, Artemesia, Aster, Azaleas, Begonia, Baby's Breath, Bougainvillea, Boxwood, Caladium, Carnation, Cattelya Skinneri, Ceanothos, Cissus, Chrysanthemum, Coleus, Columbine, Cotoneaster, Daisy, Delphinium, Dieffenbachia, Dogwood, Easter Lily, English Ivy, Ficus, Foxglove, Gaillardia, Geranium, Gloxinia, Hibiscus, Impatiens, Japanese Holly, Juniper, Lavender, Leather Leaf Fern, Marigold, Moterey Pink, Pieris, Peperomia, Petunia, Philodendron, Pansy, Phlox, Pinks, Pittosporum, Poinsetta, Pothos, Primrose, Prostrate Rosemary, Rosemary, Salvia, Schefflera, Sedium, Sempervivum, Snapdragon, Spathiphyllum, Taxus Media, Verbena, Vinca, White Cedar, White Pine, Zinnia, and Zygocactus. AGRI-FOS® 400 may also be used for Vegetable Transplants grown in Greenhouse, Lathouse, or Shade house sites.

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.
Phytophthora spp [Root Rot] and Pythium spp [Damping-off]	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	1/8 tsp. per gallon of water	Apply each gallon of solution to an area of 4 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
Phytophthora spp* [Root Rot]	Foliar spray	¼ tsp. per 100 sq. ft.	Apply spray in 1 pint of water per 100 sq.ft.
Phytophthora spp* [Root Rot]	Hand gun	2 quarts per 100 gallons of water	Apply spray to thoroughly wet all foliage

* Lavender applications.

CONIFERS*

Apply AGRI-FOS® 400 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
Phytophthora spp	Foliar spray, ground	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 day. Repeat as required.
	Bare root dipping of transplants	2 tsp. per gallon of water	Immediately before transplanting, dip transplants for two minutes; keep roots submerged and ensure root mass is thoroughly wet.
Fusarium subglutinans (Pine Pitch Canker)	Basal bark spray apply any time active growth occurs	16 fl. oz. AGRI-FOS® 400 + 32 fl. oz. of water + 0.5 fl. oz. of Supa Stik PN 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.
Fusarium subglutinans (Pine Pitch Canker)	Injection	4 tsp per tree of a 16 fl. oz. AGRI-FOS® 400 + 32 fl. oz. of water + 0.5 fl. oz. of Supa Stik PN 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 AND HOME LAWNS*

Use AGRI-FOS® 400 for the effective control of Rhizoctonia, Pythium and damping-off diseases, and for suppression of Anthracnose of turf and lawn grasses. When conditions favor disease, begin preventive applications and repeat at indicated intervals. Use higher rate of application when disease pressure is severe.

TURF AND HOME LAWNS* Continued

Disease	Application Method	Rate	Application Program
Pythium	Foliar spray	5 to 10 fl. oz. per 1000 sq. ft.	Apply indicated quantity of product in 1 to 5 gal. of water per 1000 sq. ft. Ensure foliage is thoroughly wet. Application intervals: 14-21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.
Suppression of Anthracnose	Foliar spray	5 to 10 fl. oz. in 2 gallons of water per 1000 sq. ft.	Apply prior to onset of disease. Apply every 7 to 14 days.
Rhizoctonia	Foliar spray	5 to 10 fl. oz. in 2 gallons of water per 1000 sq. ft.	Apply prior to onset of disease. Apply every 7 to 14 days.

Do not graze animals on treated areas of lawn. Do not feed treated lawn clippings to poultry or livestock.

* Use in California limited to control of pythium.

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.

PESTICIDE DISPOSAL and CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. If empty: Offer for recycling if available or discard in a sanitary landfill. 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

To the extent consistent with applicable law, all conditions and warranties and statutory or other rights of action which buyer or any other user may have against Liquid Fertiliser Pty. Ltd. are hereby excluded. To the extent consistent with applicable law, Liquid Fertiliser Pty. Ltd. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by Liquid Fertiliser Pty. Ltd. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. To the extent consistent with applicable law, Liquid Fertiliser Pty. Ltd.'s liability shall in all circumstances be limited to replacement of product or a refund of the purchase price thereof.