

AGRI-FOS[®]

SYSTEMIC FUNGICIDE

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 & BEDDING PLANTS, PHYTOPHTHORA IN CONIFERS, AND 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.

**KEEP OUT OF REACH OF CHILDREN
 CAUTION**

**CONSULT PAGE 1 OF THIS BOOKLET FOR FIRST AID &
 PRECAUTIONARY STATEMENTS**

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Batch No.

Date of Manufacture:
 CA

Net Contents:



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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 by mouth 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
- 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, preferable mouth-to-mouth, if possible
- Call a poison control center or doctor for further treatment advice

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

CAUTION. Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapors or spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTION EQUIPMENT (PPE)

Applicators and other handlers must wear protective eyewear, long pants and long-sleeved shirt, waterproof gloves, shoes plus socks.

PERSONAL PROTECTION EQUIPMENT (PPE) cont'd.

Follow manufacturers instructions for maintaining / cleaning personal protective equipment (PPE). If no such instructions for washables, use hot water and detergent. Keep and wash PPE separately from other laundry. When handlers use closed systems, aircraft or enclosed cabs in a manner that meets the requirements listed in the worker protection standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

- Users should:
- Wash hands before drinking, eating, chewing gum, using tobacco or using the toilet.
 - Remove PPE clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

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

AGRICULTURAL USE REQUIREMENTS

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

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

PPE required for early entry to treated areas that are permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soils or water, is: coveralls, waterproof gloves, shoes plus socks and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labelling. Read entire label before using this product.

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

APPLICATION THROUGH SPRINKLER IRRIGATION SYSTEMS

Use of AGRI-FOS[®] through chemigation is not permitted in California. Apply this product through drip, microjet, solid set and center pivot sprinkler irrigation systems. Do not apply this product through any other type of irrigation system.

PREPARATION OF INJECTION EQUIPMENT: Remove pesticide, scale residues and other foreign matter from the chemical tank and entire injection system. Flush with clean water.

APPLICATION INSTRUCTIONS: Fill tank with one half to three quarters the desired amount of water. Start hydraulic or mechanical agitation. Add the required amount of AGRI-FOS[®] then the remaining volume of water. Set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the solution of AGRI-FOS[®] into the irrigation water line so as to deliver the rate per acre. Inject the AGRI-FOS[®] solution with a positive displacement pump into the main line before a right angle turn to ensure adequate mixing. For other questions about calibration, contact equipment manufacturers, State Extension Service specialists or other experts.

APPLICATION THROUGH SPRINKLER IRRIGATION SYSTEMS cont'd.

NOTE: For Microjet and Drip Irrigation Systems: After treatment with AGRI-FOS® has been completed, avoid further irrigation of the treated area for 24 to 48 hours.

For Solid Set and Center Pivot Irrigation Systems: After treatment with AGRI-FOS® has been completed, avoid further irrigation of the treated area until foliage is dry to prevent washing the chemical off the crop.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure solution uniformity. The irrigation system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of chemigation water.

Allow sufficient time for pesticide to be flushed through all lines and nozzles before turning off irrigation water. A person knowledgeable in chemigation system and responsible for its operation, shall shut down and adjust the system as needed.

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

GENERAL APPLICATION INSTRUCTIONS

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

MIXING INSTRUCTIONS

1. Fill the spray tank with 1/4 to 1/2 of the volume of water required before adding AGRI-FOS®
2. Add AGRI-FOS® slowly to the tank and agitate by mechanical or hydraulic means
3. Continue agitating as tank fills with water to the desired volume
4. Maintain agitation during application

COMPATIBILITY

AGRI-FOS® is compatible with most products used in agriculture. However, individual crop sensitivity to these mixtures may vary. Mixtures of AGRI-FOS® with some foliar fertilizers and copper products may not be compatible or may cause phytotoxicity to some plants. If these combinations or others have not been used previously, do not tank mix without first testing the compatibility of the tank mix. Do not apply tank mixture without first assessing its safety to the crop (phytotoxicity).

Due to AGRI-FOS®'s acidic nature, the use of acidifying-type compatibility agents are not recommended. If spray adjuvants are used they must be tested before use to confirm compatibility with AGRI-FOS®.

A jar test should be used to confirm compatibility with AGRI-FOS® in a clean jar using the same water source that is normally used to fill spray tank, add the same proportions of each product and the appropriate quantity of water and mix thoroughly. Let stand for 3 minutes. If mixture remains in solution or can remixed readily the tank mix is compatible. The solution that resulted from the above compatibility test should be sprayed onto a few plants and inspected for visual effects of phytotoxicity (leaf burn) 3 to 7 days later.

AGRICULTURAL APPLICATIONS

ALMONDS*

AGRI-FOS® may be used for effective control of root rot disease in Almonds and other nut crops such as walnuts grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora spp)	Foliar	1 1/4 quarts/acre in 125 gallons water to 2 1/2 quarts in 250 gallons water	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post harvest

*Not for use in California.

ASPARAGUS*

AGRI-FOS® may be used for effective control of crown rot & asparagus spear slime disease in asparagus crops grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Crown rot & Asparagus spear slime (Phytophthora spp)	Foliar	1 1/4 quarts/acre in 100 gallons water to 2 1/2 quarts/acre in 200 gallons 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.

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

AGRI-FOS® may be used for effective control of black spot, root and collar rot and fire blight in apples, crab apples, loquats, pears, Oriental pears, and quinces grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Apple black spot or scab (Venturia inaequalis)	Foliar spray	1/2 gallon / acre in 150 gallons water / acre	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, an application of RELIANT™ should be made immediately. Note: 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.
Root and collar rot (Phytophthora cactorum) Fire Blight (Erwinia amylovora)	Foliar spray	Apply at 1 1/4 - 2 1/2 quarts/acre with a maximum of 500 gallons water / acre	One to two month intervals between treatments. Under high disease pressure use higher application rate and shorter spray interval. Ensure thorough coverage.

*Not for use in California.

AVOCADOS

AGRI-FOS® may be used for effective control of root rot, trunk cankers and downy mildew disease in Avocado grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora cinnamomi)	Tree injection	Skeletal trees 1st year: 1/4 fl oz undiluted product/yard of canopy diameter Other situations: 1/8 fl oz diluted with 1/2 fl oz of water/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. Syringes should be placed in the main trunk of the tree and spaced 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 material, other than water, to AGRI-FOS by trunk injection. Do not inject more liquid in a lesser number of syringes than directed.

AVOCADOS cont'd.

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora cinnamomi)	Foliar spray	1/3 fl oz/gallon of water, 1/2 - 2/3 gallon product / acre	Spray to run off at 2 - 2 1/2 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 (Phytophthora citricola)	Trunk spray	1 1/4 - 2 1/2 quarts mixed with 5 gallons water	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 3/4 pints in 500 gallons water	Spray to run-off, as required for disease control

BLUEBERRY*

AGRI-FOS® may be used for effective control of root rot disease in blueberry crops grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora spp)	Foliar	1 1/4 quarts/acre in 100 gallons water to 2 1/2 quarts/acre in 200 gallons water	First application in spring at pink bud and then on a regular schedule of application at two to three intervals

*Not for use in California.

BRASSICAS

AGRI-FOS® may be used for effective control of downy mildew in broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, collards, Chinese cabbage, Chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Downy mildew (Peronospora parasitica)	Foliar spray	1 1/4 quarts/acre in 100 gallons water to 2 1/2 quarts/acre in 185 gallons 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.

*Not for use in California.

CANE BERRIES*

AGRI-FOS® may be used for effective control of root rot in blackberry, loganberry, raspberry (red, black, hybrids/cultivars) grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Root rot (Phytophthora sp.)	Foliar spray	A minimum of 2 1/2 quarts in at least 185 gallons water/acre. 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

*Not for use in California.

CITRUS – Mature trees

AGRI-FOS® may be used for effective control of root rot and collar rot diseases in citrus grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Brown rot and foot rot (Phytophthora spp)	Foliar spray	2.5 quarts/acre in a maximum of 500 gallons 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

CITRUS – Mature trees Cont'd

Disease	Application Method	Rate	Application Program
Root rot and collar rot (Phytophthora spp nicotianae and Phytophthora citrophthora)	Trunk spray	Mix 1 1/4 - 2 1/2 quarts in a minimum of 5 gallons water	Spray trunk lesions with enough spray volume to ensure lesions are completely wet. When disease levels are high use higher rate

COCONUTS

AGRI-FOS® may be used for effective control of bud rot and nut fall in coconuts grown in commercial plantations.

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

CUCURBITS

Such as 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. AGRI-FOS® may be used for effective control of sudden wilt, gummy stem blight, and downy mildew diseases in cucurbits grown in field situations.

Disease	Application Method	Rate	Application Program
Sudden wilt - Root and fruit rot (Phytophthora spp)	Foliar spray	Light to medium foliage cover: Apply 1/3 gallon/acre in 100 gallons water to 1/2 gallon/acre in 150 gallons water. Heavy foliage cover: Apply 3/4 gallon/acre in 225 gallons water	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.
Gummy stem blight (Mycosphaerella melonis)	Foliar spray	Light to medium foliage cover: Apply 1/3 gallon/acre in 100 gallons water to 1/2 gallon/acre in 150 gallons water. Heavy foliage cover: Apply 3/4 gallon/acre in 225 gallons water	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.
Downy mildew (Pseudoperonospora cubensis)	Foliar spray	Light to medium foliage cover: Apply 1/3 gallon/acre in 100 gallons water to 1/2 gallon/acre in 150 gallons water. Heavy foliage cover: Apply 3/4 gallon/acre in 225 gallons water	Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per season.

CUCURBITS, TANK MIXTURES*

For the effective control of downy mildew diseases AGRI-FOS® should be tank mixed with Dithane® fungicide and applied to cucurbits grown in commercial plantations.

Product	Disease	Rate	Application Program
AGRI-FOS® + DITHANE®**	Downy mildew	Light to medium foliage cover: Apply 1/3 - 1/2 gallon of product/acre Heavy foliage cover: Apply 3/4 gallon of product/acre + Rohm & Haas recommended rate of DITHANE®**	Apply as a foliar spray the recommended quantity and dilution rates with water of both products. For best results apply AGRI-FOS® as a tank mix with protectant fungicides such as Mancozeb/ Dithane®*, copper oxychloride, etc., to ensure both pre- and post-infection activity.

*Not for use in California.

**Registered trademark of Rohm & Haas

GINSENG*

AGRI-FOS® may be used for effective control of foliar and root rot in ginseng grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Foliar and root rot (Phytophthora cactorum)	Foliar spray	2.5 quarts in 100 gallons of spray solution	In cool wet conditions that favor Phytophthora, applications should be made at 7 day intervals. Do not exceed a total of 8 applications per season.

*Not for use in California.

GRAPES

AGRI-FOS® may be used for effective control of downy mildew diseases in grapes grown in commercial vineyards.

Disease	Application Method	Rate	Application Program
Downy mildew (Plasmopara viticola)	Foliar spray	Early season small canopy, 1/3 gallon/acre in 100 gallons water. Late season/ large canopy, 1/2 gallon/acre in 150 gallons water to 2/3 gallon/acre in 200 gallons water	It is essential that the rate of AGRI-FOS® be adjusted to the vine-row volume, i.e., the volume of vine foliage per acre. Spray timing is critical. AGRI-FOS® should be applied 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® is applied to match vine growth, particularly from mid-season onwards, and especially where grapes are grown on root stock.

GRAPES, TANK MIXTURES*

For the effective control of downy mildew diseases AGRI-FOS® should be tank mixed with Dithane® fungicide and applied to grapes grown in commercial vineyards.

Product	Disease	Rate	Application Program
AGRI-FOS® + DITHANE®**	Downy mildew	Early season small canopy, 1/3 gallon/acre in 100 gallons water Late season/ large canopy, 1/2 gallon/acre in 150 gallons water to 2/3 gallon/acre in 200 gallons water + Rohm & Haas recommended rate of DITHANE®**	Apply as a foliar spray the recommended quantity and dilution rates with water of both products. For best results apply AGRI-FOS® as a tank mix with protectant fungicides such as Mancozeb/ Dithane®**, copper oxychloride, etc., to ensure both pre- and post-infection activity.

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HOPS*

AGRI-FOS® may be used for effective control of downy mildew in hops grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray by ground equipment only	1 1/4 quarts in 100 gallons water/acre	When conditions favor disease, applications should occur when A. Shoots are 1/2 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*

AGRI-FOS® may be used for effective control of downy mildew in leafy vegetables such as amaranth, arugula, cardoon, celery, chervil, corn salad, endive, fennel, parsley, radicchio, rhubarb, spinach, and Swiss chard grown in commercial plantations. Excludes Brassica vegetables.

Disease	Application Method	Rate	Application Program
Downy mildew (Bremia lactucae)	Foliar Spray	1/2 gallon/acre in 100 gallons water	Ensure spray coverage is adequate to wet the whole plant. During warm, wet conditions, application at 7 to 10 day intervals may be required.

*Not for use in California.

LETTUCE

AGRI-FOS® may be used for effective control of downy mildew diseases in lettuce grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Downy mildew (Bremia lactucae)	Foliar Spray	1/2 gallon/acre in 200 gallons water	Ensure spray coverage is adequate to wet the whole plant. During warm, wet conditions, application at 7 to 10 day intervals may be required.

MACADAMIA NUTS

AGRI-FOS® may be used for effective control of raceme blight in macadamia nuts grown with good cultural practices in commercial plantations.

Disease	Application Method	Rate	Application Program
Raceme blight (Phytophthora spp)	Foliar Spray	3 3/4 quarts/ acre in 250 gallons water	Apply when disease is first seen and re-apply at 3 week intervals. Spray to the point of run-off

MANGOS

AGRI-FOS® may be used for effective control of anthracnose in mangos grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Anthracnose (Colletotrichum gloeosporoides)	Foliar Spray	1 1/3 fl oz / gallon water	Spray tree every 14 days during blossom period, then monthly until harvest. Spray to the point of run-off

ONIONS

AGRI-FOS® may be used for effective control of downy mildew disease in onions, garlic and shallots grown in commercial plantations. Use as a preventative control program for best results.

Disease	Application Method	Rate	Application Program
Downy mildew (Peronospora destructor)	Foliar spray	2 quarts/acre in 100 gallons water/acre	As a regular preventative control program or when disease first appears

ONIONS, TANK MIXTURES*

For the effective control of downy mildew diseases AGRI-FOS® should be tank mixed with Dithane® fungicide and applied to onions, garlic and shallots in commercial plantations.

Product	Disease	Rate	Application Program
AGRI-FOS® + DITHANE®**	Downy mildew	2 quarts/acre in 100 gallons water/acre + Rohm & Haas recommended rate of DITHANE®**	Apply as a foliar spray the recommended quantity and dilution rates with water of both products. For best results, apply AGRI-FOS® as a tank mix with protectant fungicides such as Mancozeb/ Dithane®** to ensure both pre- and post-infection activity

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PINEAPPLES

AGRI-FOS® may be used for effective control of Phytophthora root and heart rot diseases in pineapples grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Phytophthora root and heart rot (Phytophthora cinnamomi and parasitica)	Foliar spray	2/3 gallon in 25-50 gallons water/acre.	Apply to tops, 14 days prior to harvest of planting material
	Pre plant dip	1 1/4 quart in 100 gallons water	Will treat enough slips to plant one acre
	Foliar spray	2 quarts in 100 gallons water	Established plantings when conditions favour disease. Applications at 90 day intervals may be required. Ensure thorough coverage of plants

POTATOES

AGRI-FOS® may be used for effective control of late blight disease, storage diseases such as pink rot and pythium leak in potatoes grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Pink rot and Pythium leak (Phytophthora erythroseptica and Pythium spp)	In furrow spray	2 quarts - 1 1/4 gallons/acre in 10 gallons water	Apply in a band spray directly over top or just before row is closed
Late blight, Pink rot and Pythium leak (Phytophthora infestans, Phytophthora erythroseptica and Pythium spp)	Foliar spray	1 1/4 quarts/acre in 90 gallons water to 1 1/4 gallons/acre in 375 gallons water	Apply at 5 to 14 day intervals subject to disease incidence.

POTATOES, TANK MIXTURES, IN-FURROW SPRAY

For the effective control of late blight disease, storage diseases such as pink rot and pythium leak, AGRI-FOS® should be tank mixed with a Mefenoxam-containing fungicide, registered for this use pattern and applied to potatoes grown in commercial plantations.

Product	Disease	Rate	Application Program
AGRI-FOS® + Mefenoxam-containing fungicide, registered for this use pattern	Late blight, Pink rot and Pythium leak (Phytophthora infestans, Phytophthora erythroseptica and Pythium spp)	1 1/4 quarts - 1 1/4 gallons/acre in 10 gallons water + Mefenoxam containing fungicide, as per label directions	Apply in a band spray directly over top or just before row is closed as per registered label directions

POTATOES, TANK MIXTURES, FOLIAR SPRAY

For the effective control of late blight disease, storage diseases such as pink rot and pythium leak AGRI-FOS® should be tank mixed with mefenoxam, or triphenyltin hydroxide-containing fungicide, registered for this use pattern and applied to potatoes grown in commercial plantations.

Product	Disease	Rate	Application Program
AGRI-FOS® + mefenoxam or triphenyltin hydroxide-containing fungicide, registered for this use pattern	Pink rot and Pythium leak (Phytophthora erythroseptica and Pythium spp)	1 1/4 quarts - 1 1/4 gallons/acre in 10 gallons water + mefenoxam or triphenyltin hydroxide-containing fungicide, as per label directions	Additional foliar applications may become necessary when 1) High disease pressure is evident 2) Susceptible cultivars or long growing season locations are selected as per registered label directions

STONE FRUIT*

AGRI-FOS® may be used for effective control of root, collar rot and almond pruning wound canker disease in stone fruit grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Root and collar rot (Phytophthora spp)	Foliar spray	2 1/2 quarts/acre in 250 gallons water	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post-harvest
Almond pruning-wound cankers (Phytophthora syringae)	Paint or spray	1 1/4 - 2 1/2 quarts in 100 gallons 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

AGRI-FOS® may be used for effective control of leather rot, red stele and Phytophthora disease in strawberries grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Red stele (Phytophthora fragariae)	Pre-planting dip	1 1/4 quarts in 100 gallons water	Dip planting material in this solution for 30 minutes, then plant within one day. Program may be used for annual and perennial varieties
	Foliar Spray	1 1/4 quarts/acre in 90 gallons water to 2 1/2 quarts/acre in 200 gallons 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
Leather rot (Phytophthora cactorum)	Foliar Spray	1 1/4 quarts/acre in 90 gallons water to 2 1/2 quarts/acre in 200 gallons water	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

TOMATOES*

AGRI-FOS® may be used for effective control of late blight and root rot in tomatoes and tomatillos grown in commercial plantations.

Disease	Application Method	Rate	Application Program
Late blight and root rot (Phytophthora infestans and Phytophthora spp)	Foliar spray	1 1/4 quarts/acre in 90 gallons water to 2 1/2 quarts/acre in 200 gallons 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

*Not for use in California.

ORNAMENTAL APPLICATIONS

AGRI-FOS® may be used for effective control of Bacterial blight, Downy mildew, Phytophthora and Pythium diseases of Ornamentals grown in commercial landscapes, commercial nurseries, golf courses, parks and greenhouses. AGRI-FOS® may be applied to plants such as Aglaonema, Anthurium, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Diffenbachia, Dogwood, English ivy, Ficus, Hibiscus, Juniper, Japanese Holly, Leather leaf Fern, Monterey Pine, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses, Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, White Pine, White Cedar, and Zygocactus.

Applications should occur before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy. Do not exceed recommended spray intervals or label rates as plant injury can occur.

Disease	Application Method	Rate	Application Program
Bacterial blight (Xanthomonas campestris) pothovars: dieffenbachiae, fici hederatae and syngonli	Foliar spray	2 - 4 pints / 100 gallons of water Or 1/3 to 2/3 fl oz / gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.
Downy Mildew		1 1/4 - 2 1/2 quarts / 100 gallons of water Or 2/5 - 4/5 fl oz / gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
Phytophthora and Pythium		1 - 2 quarts / 100 gallons of water Or 1/3 - 2/3 fl oz / gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.

ORNAMENTAL APPLICATIONS cont.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium	Soil drench	6 2/7 - 12 2/3 fl. oz. / 100 gallons of water	Apply each 25 gallons of solution to an area of 100 sq. feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil incorporation	1-2 pints / cubic yard of soil	Just prior to potting, mix 1 to 2 pts. of AGRI-FOS® into each cubic yard of growing media. If disease pressure is high, foliar spray or soil drench may be needed.
	Bare rooted dipping of transplants	2 pints / 100 gallons of water or 1/3 fl oz / gallon	Immediately before transplanting, dip transplants for two minutes, keep roots submerged, ensure root mass is thoroughly wet.

BEDDING PLANTS

AGRI-FOS® may be used for effective control of Downy mildew, Phytophthora and Pythium diseases of BEDDING PLANTS grown in commercial landscapes, commercial nurseries and golf courses, parks, and greenhouses. AGRI-FOS® may be applied to plants such as 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, Marigold, Petunia, Pansy, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Vinca, Verbena, and Zinnia.

Applications should occur before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are heat or moisture stressed.

Disease	Application Method	Rate	Application Program
Downy Mildew	Foliar spray	1 1/4 - 2 1/2 quarts / 100 gallons water Or 3/7 - 1 1/8 fl oz / gallon water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
Phytophthora and Pythium	Foliar spray	1 - 2 quarts / 100 gallons water Or 1/3 - 2/3 fl oz / gallon 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.
	Soil drench	6 2/7 - 12 2/3 fl. oz. / 100 gallons water	Apply each 25 gallons of solution to an area of 100 sq. feet. Follow application with irrigation. Repeat as required. Limit of one application per month.

CONIFERS IN COMMERCIAL NURSERIES, PLANTATIONS AND FORESTS* (INCLUDING CHRISTMAS TREES)

AGRI-FOS® applications in conjunction with good cultural management practices may be used for effective control of root rot (Phytophthora) 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 recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to CONIFERS that are moisture or heat stressed.

Disease	Application Method	Rate	Application Program
Phytophthora	Foliar spray	1 - 2 quarts / 100 gallons water Or 1/3 - 2/3 fl oz / gallon water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	1 - 2 quarts / 100 gallons Or 1/3 - 2/3 fl oz / gallon	Apply one gallon of solution per sq. yd. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.

*Not for use in California.

CONIFERS IN COMMERCIAL NURSERIES, PLANTATIONS AND FORESTS* (INCLUDING CHRISTMAS TREES) cont.

Disease	Application Method	Rate	Application Program
Phytophthora	Bare rooted dipping at transplanting	1 qt / 100 gallons or 1/3 fl oz / gallon	Immediately before transplanting, dip transplants for two minutes; keep roots submerged and ensure root mass is thoroughly wet.

*Not for use in California.

Do not graze livestock in treated areas of conifer nurseries or plantations. Do not feed forage from treated areas of plantations and or nurseries.

ORNAMENTAL PEAR IN COMMERCIAL NURSERIES, PLANTATIONS*

AGRI-FOS® applications in conjunction with good cultural management practices may be used for effective control of fire blight in ornamental pear, hawthorne, and pyracantha. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are moisture or heat stressed.

Disease	Application Method	Rate	Application Program
Fire blight	Foliar spray	1 1/4 quarts / 100 gal	First application pre bloom. Application intervals: 7 days until end of bloom period. Apply spray to thoroughly wet all foliage.

*Not for use in California.

ROSES IN COMMERCIAL NURSERIES, PLANTATIONS*

AGRI-FOS® applications in conjunction with good cultural management practices may be used for effective control of downy mildew (Peronospora sparsa) in ROSES including, but not limited to, container, field, landscape and mini varieties. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to ROSES that are moisture or heat stressed.

Disease	Application Method	Rate	Application Program
Downy mildew (Peronospora sparsa)	Foliar spray	2 1/2 pints / 100 gallons water Or 2/5 fl oz / gallon water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.

*Not for use in California.

TURF

AGRI-FOS® may be used for the effective control of Pythium and damping-off diseases of turf grasses on golf courses, parks, commercial landscapes, commercial turf production, and sod farms. When conditions favor disease, begin preventive applications and repeat at recommended intervals. Use higher rate of application when disease pressure is severe.

Disease	Application Method	Rate	Application Program
Pythium	Foliar spray	5 - 10 fl oz / 1000 sq. ft.	Apply recommended quantity of product in 1 to 5 gallons 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.

TURF TANK MIXTURES

For the effective control of summer stress complex caused by a complex of Rhizoctonia and Pythium diseases, AGRI-FOS® should be tank mixed with Fore® WP fungicide and applied to turfgrasses on golf courses, parks, commercial landscapes, commercial turf production, and sod farms.

Product	Disease	Rate/1000 sq. ft.	Application Program
AGRI-FOS® + FORE® WP**	Summer Stress Complex (Rhizoctonia and Pythium spp.)	5 - 10 fl oz AGRI-FOS® + 4 - 8 fl oz FORE® WP**	Apply recommended quantity of product in 1 to 5 gal. of water per 1000 sq. ft. as a foliar spray. Start as a preventive spray at two-week intervals and repeat as required. Do not irrigate or mow treated areas until spray has completely dried.

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

STORAGE AND DISPOSAL

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

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: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or hazardous waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, keep out of smoke.

NOTICE TO BUYER:

To the extent permitted by law, all conditions and warranties and statutory or other rights of action which buyer or any other user may have against Agrichem Manufacturing Industries Pty. Ltd. are hereby excluded. Agrichem Manufacturing Industries 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 Agrichem Manufacturing Industries 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. Agrichem Manufacturing Industries Pty. Ltd.'s liability shall in all circumstances be limited to replacement of product or a refund of the purchase price thereof.



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