

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, PYTHIUM IN TURF, AND PHYTOPHTHORA AND PYTHIUM DISEASES ASSOCIATED WITH STEM AND CANKER BLIGHT (SUDDEN OAK DEATH) AND GENERAL BEECH DECLINE.

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

EPA Reg. No. 71962-1

EPA Est. No. 71962-AUS-001

Batch No.:

Date of Manufacture:

NET CONTENTS:



Manufactured by:

Agrichem / LIQUID FERTILISER PTY. LTD.

4-10 Chetwynd St., Loganholme, Queensland 4129, Australia

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 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. You may also contact the National Poison Control Hotline at 1-800-222-1222, 24 hours a day, 7 days a week.

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 PROTECTIVE EQUIPMENT (PPE)

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

Follow manufacturer's 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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

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 state or tribal agency responsible for pesticide registration.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, 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 worn over short-sleeved shirt and short pants, 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.

CHEMIGATION

Use of AGRI-FOS[®] through chemigation is not permitted in California.

Apply this product only through center pivot, solid set or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

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

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

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

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

SPRINKLER AND DRIP (TRICKLE) IRRIGATION SYSTEMS:

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 toward the injection pump.

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

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

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

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

(Sprinkler Chemigation Only) Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply AGRI-FOS[®] continuously for the duration of the water application. After treatment with AGRI-FOS[®] has been completed, avoid further irrigation of the treated area until foliage is dry or for 24 to 48 hours.

GENERAL APPLICATION INSTRUCTIONS

Apply AGRI-FOS[®] by various application methods, including foliar spray, soil drench, soil incorporation, basal bark application 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 runoff.

MIXING INSTRUCTIONS

1. Fill the spray tank with 1/4 - 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 are not always compatible or 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). Tank mix AGRI-FOS[®] with fertilizers only if crop safety has been established and the AGRI-FOS[®] use rates are followed.

Due to AGRI-FOS[®]'s acidic nature, do not use acidifying-type compatibility agents. If spray adjuvants are used test them before use to confirm compatibility with AGRI-FOS[®].

Use a jar test 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 is remixed readily the tank mix is compatible.

Spray the solution that results from the above compatibility test onto a few plants and inspect for visual effects of phytotoxicity (leaf burn) 3 to 7 days later.

AGRICULTURAL APPLICATIONS

APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE*

Use AGRI-FOS® 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 or scab (<i>Venturia inaequalis</i>)	Foliar spray	1/2 gallon per acre in 25-250 gallons water per acre	First application at open cluster. Last application at fifth cover or fruit at 2" to 2 1/4" diameter. Total of 10 applications at 10- to 12-day intervals. When conditions are conducive to a black spot outbreak, apply AGRI-FOS® 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 (<i>Phytophthora cactorum</i>) Fire Blight (<i>Erwinia amylovora</i>)	Foliar spray	Apply at 1 1/4 to 2 1/2 quarts per acre with a maximum of 250 gallons water per 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.

ASPARAGUS*

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

Disease	Application Method	Rate	Application Program
Crown rot & Asparagus spear slime (<i>Phytophthora spp</i>)	Foliar	1 1/4 quarts per acre in 25 gallons water to 2 1/2 quarts per acre in 250 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.

AVOCADOS

Use AGRI-FOS® 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: 1/4 fl. oz. undiluted product per yard of canopy diameter. Other situations: 3/4 teaspoon diluted with 1 1/2 fl. oz. of water per yard of canopy diameter	Inject trees at spring flush maturity. Repeat treatment in February or March. Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murf gun, or hydraulic tree injection. Do not prune back trees before injection process as burning of new growth may occur. Do not inject trees in winter months. Do not cut back the canopy of injected trees. Do not add any material, other than water, to AGRI-FOS® by trunk injection. Do not inject more liquid in a lesser number of syringes than directed.
	Foliar spray	2 tsp. per gallon of water, 1/2-2/3 gallon of product per acre	Spray to runoff 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 (<i>Phytophthora citricola</i>)	Trunk spray	1 1/4 to 2 1/2 quarts mixed with 5 gallons of 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 1/4 pints in 500 gallons water	Spray to runoff, as required for disease control.

BERRIES*

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

Disease	Application Method	Rate	Application Program
Root rot (<i>Phytophthora spp.</i>)	Foliar spray	2 1/2 quarts in 185 gallons of water per 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. For blueberries – First application in spring at pink bud and then on a regular schedule of application at 2- to 3-week intervals.

*Not for use in California.

BRASSICAS

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

Disease	Application Method	Rate	Application Program
Downy mildew (<i>Peronospora parasitica</i>)	Foliar spray	1 1/4 quarts per acre in 25 gallons of water per acre to 2 1/2 quarts per acre in 250 gallons of water per acre California: 1 1/4 quarts per acre in 100 gallons of water to 2 1/2 quarts per acre in 185 gallons 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.

CEREAL GRAINS*

Apply AGRI-FOS® to crops such as, but not limited to, field corn, ornamental corn, sweet corn, Indian corn, wheat, rye, barley, oats, triticale, and sorghum (milo). Use AGRI-FOS® for effective control of damping-off and root rot diseases.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium spp</i>	Foliar spray	1 1/2 quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	Corn: Apply at 14-day intervals from 4-leaf stage, as needed. Assure good coverage. Other grains: Apply at 14- to 21-day intervals, as needed. Assure good coverage.

*Not for use in California.

CITRUS – Mature trees

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

Disease	Application Method	Rate	Application Program
Brown rot and foot rot (<i>Phytophthora spp</i>)	Foliar spray	2 1/2 quarts per acre in a maximum of 250 gallons of water	When conditions favor disease. Spray trees to runoff; ensure even coverage. Do not apply at high temperatures (above 95°F) particularly if humidity is low or to moisture-stressed trees.
Root rot and collar rot (<i>Phytophthora spp</i> <i>nicotianae</i> and <i>Phytophthora citrophthora</i>)	Trunk spray	Mix 1 1/4 to 2 1/2 quarts in a minimum of 5 gallons of water	Spray trunk lesions with enough spray volume to ensure lesions are completely wet. When disease levels are high, use higher rate.

COCONUTS

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

Disease	Application Method	Rate	Application Program
Bud rot – Nut fall (<i>Phytophthora palmivora</i>)	Injection	Between 2 tsp. and 1 fl. oz. per 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

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

Disease	Application Method	Rate	Application Program
Sudden wilt – Root and fruit rot (<i>Phytophthora spp</i>)	Foliar spray	Apply 1½ quarts per acre in 40 gallons of water	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.
Gummy stem blight (<i>Mycosphaerella melonis</i>)			Apply when disease is evident. Continue applications at 21-day intervals until cure is apparent. Do not exceed a total of 6 applications per season.
Downy mildew (<i>Pseudoperonospora cubensis</i>)			Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per season.

CUCURBITS, TANK MIXTURES*

For the effective control of downy mildew diseases, tank-mix AGRI-FOS® with a mancozeb-containing fungicide and apply to cucurbits.

Product	Disease	Rate Per Acre	Application Program
AGRI-FOS® + mancozeb-containing fungicide	Downy mildew	Light to medium foliage cover: Apply 1½-2 quarts of product per acre. Heavy foliage cover: Apply 3 quarts of product per acre + Label rate of mancozeb	Apply as a foliar spray the indicated quantity and dilution rates with water of both product. For best results apply AGRI-FOS® as a tank mix with protectant fungicides such as mancozeb, copper oxychloride, etc., to ensure both pre- and post-infection activity.

*Not for use in California.

FRUITING VEGETABLES*

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

Disease	Application Method	Rate	Application Program
Eggplant: <i>Pythium</i> and <i>Phytophthora spp</i> , and Gummy stem blight (<i>Mycosphaerella melonis</i>)	Foliar spray	Apply 1½ quarts per acre in 40 gallons of water	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season. Apply when disease is evident. Continue applications at 21-day intervals until cure is apparent. Do not exceed a total of 6 applications per season.
Peppers: Late blight and root rot (<i>Phytophthora infestans</i> and <i>Phytophthora spp</i>)		1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons 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 (<i>Phytophthora infestans</i> and <i>Phytophthora spp</i>)		1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water. California: 1½ quarts per acre in 90 gallons 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.

*Use in California limited to tomatoes and tomatillos.

GRAPES

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

Disease	Application Method	Rate	Application Program
Downy mildew (<i>Plasmopara viticola</i>)	Foliar spray	Early season small canopy, 1½ quarts per acre in 100 gallons water Late season/large canopy, 2 quarts per acre in 150 gallons water to 2½ quarts per 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. Apply AGRI-FOS® 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, tank-mix AGRI-FOS® with a mancozeb-containing fungicide and apply to grapes.

Product	Disease	Rate Per Acre	Application Program
AGRI-FOS® + mancozeb-containing fungicide	Downy mildew	Early season small canopy, 1½ quarts per acre in 100 gallons water. Late season/large canopy, 2 quarts per acre in 150 gallons water to 2½ quarts per acre in 200 gallons water + Label rate of mancozeb	Apply as a foliar spray the indicated 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, copper oxychloride, etc., to ensure both pre- and post-infection activity.

*Not for use in California.

HOPS*

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

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray by ground equipment only	1½ quarts in 100 gallons of water per acre.	When conditions favor disease, apply 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*

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

Disease	Application Method	Rate	Application Program
Downy mildew (<i>Brenthia lactucae</i>)	Foliar spray	1½ quarts per acre in 40 gallons water	Ensure spray coverage is adequate to wet the whole plant. During warm, wet conditions repeat application at 7- to 10-day intervals, if needed.

*Use in California limited to lettuce.

LEGUMES*

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

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium spp</i>	Foliar spray	1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

*Not for use in California.

MANGOS

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

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

NONGRASS ANIMAL FEED*

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

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium spp</i>	Foliar spray	1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

*Not for use in California.

OKRA*

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

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium spp</i>	Foliar spray	1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

*Not for use in California.

ONIONS

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

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

ONIONS, TANK MIXTURES*

For the effective control of downy mildew diseases, tank-mix AGRI-FOS® with a mancozeb-containing fungicide and apply to onions, garlic and shallots.

Product	Disease	Rate Per Acre	Application Program
AGRI-FOS® + mancozeb-containing fungicide	Downy mildew	2 quarts per acre in 100 gallons water per acre + Label rate of mancozeb	Apply as a foliar spray the indicated 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 to ensure both pre- and post-infection activity.

*Not for use in California.

PEANUTS*

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

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp	Foliar spray	1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	Apply at 14-day intervals, as necessary. Ensure thorough coverage.

*Not for use in California.

PINEAPPLES

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

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> root and heart rot (<i>Phytophthora cinnamomi</i> and <i>parasitica</i> spp)	Foliar spray	2½ quarts in 25-50 gallons water per acre	Apply to tops, 14 days prior to harvest of planting material.
	Pre-plant dip	1¼ quarts in 100 gallons water	Will treat enough slips to plant one acre.
	Foliar spray	2 quarts in 100 gallons water	Established plantings when conditions favor disease. Apply at 90-day intervals. Ensure thorough coverage of plants.

ROOT AND TUBER VEGETABLES*

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

Disease	Application Method	Rate	Application Program
Ginseng: Foliar and root rot (<i>Phytophthora cactorum</i>)	Foliar spray	2½ quarts in 100 gallons of water	In cool, wet conditions that favor <i>Phytophthora</i> . Apply at 7-day intervals. Do not exceed a total of 8 applications per season.
Carrots: <i>Phytophthora</i> and <i>Pythium</i> spp	Foliar spray	1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
Potatoes, Sweet Potatoes, Yams: Pink rot and Pythium leak (<i>Phytophthora erythroseptica</i> and <i>Pythium</i> spp)	In-furrow spray	2-5 quarts per acre in 10 gallons water	Apply in a band spray directly over top of potato seed just before row is closed.
Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and Pythium leak (<i>Phytophthora infestans</i> , <i>Phytophthora erythroseptica</i> and <i>Pythium</i> spp)	Foliar spray	1¼ quarts per acre in 90-375 gallons water per acre	Apply at 5- to 14-day intervals subject to disease incidence.

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

STONE FRUIT*

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

Disease	Application Method	Rate	Application Program
Root and collar rot (<i>Phytophthora</i> spp)	Foliar spray	2½ quarts per acre in 250 gallons water	Three treatments are required: 1. Spring 2. Midsummer 3. Fall, postharvest
Almond pruning – wound cankers (<i>Phytophthora syringae</i>)	Paint or spray	1½-2½ 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

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

Disease	Application Method	Rate	Application Program
Red stele (<i>Phytophthora fragariae</i>)	Pre-planting dip	1¼ quarts in 100 gallons water	Dip planting material in this solution for 30 minutes, then plant within one day. Use program for annual and perennial varieties.
	Foliar spray	1¼ quarts per acre in 90 gallons water to 2½ quarts per 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 (<i>Phytophthora cactorum</i>)	Foliar spray	1¼ quarts per acre in 90 gallons water to 2½ quarts per 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.

TREE NUTS*

Use AGRI-FOS® 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, and walnuts.

Disease	Application Method	Rate	Application Program
Other than macadamia nuts: Root and collar rot (<i>Phytophthora</i> spp)	Foliar	1¼ quarts per acre in 125 gallons water	Three treatments are required: 1. Spring 2. Midsummer 3. Fall, postharvest
Other than macadamia nuts: Almond pruning – wound canker (<i>Phytophthora syringae</i>)	Paint or spray	2½ quarts in 100 gallons water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet.
Macadamia nuts: Raceme blight (<i>Phytophthora</i> spp)	Foliar spray	3¼ quarts per acre in 250 gallons of water	Apply when disease is first seen and reapply at 3-week intervals. Spray to the point of runoff.

*Not for use in California.

SEED TREATMENT APPLICATIONS*

Use AGRI-FOS® for effective control of *Phytophthora* and *Pythium* diseases on agricultural crop seeds from crops listed elsewhere on this label.

Disease	Application Method	Rate
<i>Phytophthora</i> , <i>Pythium</i> and <i>Fusarium</i> spp	Can be applied at-planting or in commercial seed treatment operations.	8-24 oz AGRI-FOS® per 100 lbs of seed or 4-10 quarts AGRI-FOS® per ton of seed, depending on the size of the seeds to be treated.

*Not for use in California.

GRASS GROWN FOR SEED PRODUCTION*

Use AGRI-FOS® for effective control of damping-off and root rot diseases in turf grasses such as, but not limited to, Bermuda, fescue, bent, blue, rye, zoysia, buffalo, and *Poa annua*.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp	Foliar spray	1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	Apply at 14-21 day intervals, as necessary. Ensure thorough coverage.

*Not for use in California.

LANDSCAPE, GOLF COURSE, NURSERY, FORESTRY, AND PARK APPLICATIONS*

Use AGRI-FOS® for effective control of *Phytophthora* and *Pythium* diseases associated with Stem and Canker Blight (Sudden Oak Death, *Phytophthora ramorum*), Beech Decline, and general tree decline syndromes in landscapes, nurseries, golf courses, forests, and parks. Apply AGRI-FOS® to trees such as, but not limited to, Beech, Cedar, Chestnut, Crab Apple, Dogwood, Elm, Fir, Hawthorne, Juniper, Linden, Monterey Pine, Oaks (Coastal, Live, Shreve, Black, Canyon), Ornamental Pear, Pyracantha, Sweet Birch, Sweet Gum, White Pine, White Cedar, and Willow.

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

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp, and <i>Phytophthora ramorum</i>	Injection	11 fl. oz. per 21 fl. oz. water OR 1/2 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. (Cont.)

**LANDSCAPE, GOLF COURSE, NURSERY, FORESTRY,
AND PARK APPLICATIONS* (cont.)**

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium spp.</i> , and <i>Phytophthora ramorum</i>	Basal bark spray	62.4 fl. oz. + 62.4 fl. oz. of water + 3.2 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	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, or hydraulic applicator type equipment that forces solution into the sapwood of the tree.
Fire blight	Foliar spray	1½ quarts per 100 gallons of water	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 just prior to runoff. Can be used as a preventative or curative application. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with back-flow prevention devices, and other similar application devices. First application pre-bloom. Application intervals: 7 days until end of bloom period. Apply spray to thoroughly wet all foliage.

*Use in California limited to Oaks (Coastal, Live, Shreve, Black, Canyon) and Tan Oaks.

ORNAMENTAL APPLICATIONS

Use AGRI-FOS® for effective control of Bacterial blight, Downy mildew, *Phytophthora spp* and *Pythium spp* diseases of Ornamentals in landscapes, nurseries, golf courses, parks, and greenhouses. Apply AGRI-FOS® to plants such as, but not limited to, Ageratum, Anthurium, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Canna lily, Ceanothus, Cotoneaster, Cissus, Dffenbachia, English Ivy, Eucalyptus, Ficus, Hibiscus, Japanese andromeda, Japanese Holly, Leather leaf Fern, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses (container, field, landscape, and mini varieties), Schefflera, Sedum, Sempervivum, Syngonium, Symplocarum, 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 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 indicated spray intervals or label rates in order to avoid plant injury.

Disease	Application Method	Rate	Application Program
Bacterial blight (<i>Xanthomonas campestris</i>) pothovars: <i>dieffenbachiae</i> , <i>fici</i> <i>hederiae</i> and <i>syngonii</i>	Foliar spray	2-4 pints per 100 gallons of water OR 2-4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.
Downy mildew		1½-2½ quarts per 100 gallons of water OR 2½-5 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora spp</i> and <i>Pythium spp</i>		1-2 quarts per 100 gallons of water OR 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	6½-12½ fl. oz. per 100 gallons of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil incorporation	1-2 pints per 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, apply foliar spray or soil drench.
	Bare rooted dipping of transplants	2 pints per 100 gallons of water OR 2 tsp. per gallon	Immediately before transplanting, dip transplants for two minutes, keep roots submerged, ensure root mass is thoroughly wet.

BEDDING PLANTS

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

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	1½-2½ quarts per 100 gallons of water OR 1½-2½ fl. oz. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora spp</i> and <i>Pythium spp</i>	Foliar spray	1-2 quarts per 100 gallons of water OR 2-4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Note: Do not apply more than 500 gallons of spray solution per acre.
	Soil drench	6½-12½ fl. oz. per 100 gallons of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.

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

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

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i>	Foliar spray	1-2 quarts per 100 gallons of water OR 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	1-2 quarts per 100 gallons of water OR 2-4 tsp. per gallon of water	Apply one gallon of solution per sq. yd. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.
	Bare root dipping at transplanting	1 quart per 100 gallons of water OR 2 tsp. per gallon of water	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.

TURF

Use AGRI-FOS® 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 indicated intervals. Use higher rate of application when disease pressure is severe.

Disease	Application Method	Rate	Application Program
<i>Pythium</i>	Foliar spray	5 to 10 fl. oz. per 1,000 sq. ft.	Apply indicated quantity of product in 1 to 2 gallons of water per 1,000 sq. ft. Ensure foliage is thoroughly wet. Application intervals: 14 to 21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.

TURF TANK MIXTURES

For the effective control of summer stress complex caused by a complex of *Rhizoctonia* and *Pythium* diseases, tank-mix AGRI-FOS® with Fore® WP (or Protect T/O or mancozeb-containing) fungicide and apply to turf grasses on golf courses, parks, commercial landscapes, commercial turf production, and sod farms.

Product	Disease	Rate Per 1,000 sq. ft.	Application Program
AGRI-FOS® + FORE® WP** (or Protect T/O or mancozeb-containing fungicide)	Summer Stress Complex (<i>Rhizoctonia</i> and <i>Pythium spp.</i>)	5 to 10 fl. oz. AGRI-FOS® + 4 to 8 fl. oz. FORE® WP** (or Protect T/O or mancozeb-containing fungicide)	Apply indicated quantity of product in 1 to 5 gal. of water per 1,000 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.

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:

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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 Liquid Fertiliser Pty. Ltd. are hereby excluded. 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. Liquid Fertiliser 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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