

PM 91

69579-1

11/5/97

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Best Image Available

# FOLI-R-FOS

400

FUNGICIDE

A SYSTEMIC FUNGICIDE FOR THE SUPPRESSION OF PHYTOPHTHORA AND PYTHIUM IN ORNAMENTALS AND BEDDING PLANTS, PHYTOPHTHORA IN CONIFERS AND PYTHIUM IN TURF

ACTIVE INGREDIENTS: Mono- and di-potassium salts of Phosphorous Acid*...	45.5%
INERT INGREDIENTS:.....	54.5%
TOTAL	100.0%

\*Contains 5.14 lbs/gallon of the active ingredients, mono- and di-potassium salts of Phosphorous Acid. Equivalent to 3.33 lbs Phosphorous Acid/gallon.

EPA Reg. No. 69579-

EPA Est. No. 69579-AUS-1

## KEEP OUT OF REACH OF CHILDREN CAUTION

### STATEMENT OF PRACTICAL TREATMENT

- IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.
- IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
- IF INHALED: Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- IF SWALLOWED: Call a physician or Poison Control Center. Drink one to two glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

Net Contents:

**ACCEPTED**  
NOV 5 1997

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 69579-1

Manufactured by  
U.I.M. AGROCHEMICALS (AUST.) PTY.LTD.  
A.C.N. 010 642 896  
30-42 Railway Terrace, Rocklea Qld. 4106  
AUSTRALIA

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## 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 injury (irritation). Avoid contact with 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 long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear.

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

When handlers use closed systems, enclosed cabs, or aircraft 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 eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE clothing immediately if pesticide gets inside. Then wash thoroughly and out 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 rinsate or equipment washwaters.

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## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in 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 agency responsible for pesticide regulation.

### 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, 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.

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## APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Use of FOLI-R-FOS® 400 through chemigation is not allowed in California.

Apply this product through microjet, drip, 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 scale, pesticide residues and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

**APPLICATION INSTRUCTIONS:** Fill tank with ½ to ¾ the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of FOLI-R-FOS® 400, 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 FOLI-R-FOS® 400 into the irrigation water line so as to deliver the desired rate per acre. Inject the FOLI-R-FOS® 400 solution with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. For other questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

**NOTE:** For Microjet and Drip Irrigation Systems: After treatment with FOLI-R-FOS® 400 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 FOLI-R-FOS® 400 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 uniformly. 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.

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 all nozzles before turning off irrigation water. A person knowledgeable of the 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

FOLI-R-FOS® 400 may be applied by various application methods, including foliar spray, soil drench, soil incorporation and bare root dip. For foliar sprays, apply FOLI-R-FOS® 400 with sufficient water volumes for adequate coverage of foliage, according to crop and growth stage. To insure good coverage, spray to wet.

### MIXING INSTRUCTIONS

1. Fill the spray tank with ¼ -1/2 of the required volume of water before adding FOLI-R-FOS® 400.
2. Add FOLI-R-FOS® 400 slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

### COMPATABILITY

FOLI-R-FOS® 400 is compatible with most products used in agriculture; however, crop sensitivity to these mixtures may vary. In particular, mixtures of FOLI-R-FOS® 400, with foliar fertilizers and copper products may not be compatible or may cause phytotoxicity to certain plants. If these combinations or others have not been previously used, do not tank mix without first testing the mixture's compatibility nor apply it without assessing its safety to the crop (phytotoxicity).

The use of spray adjuvants (i.e., stickers, spreaders, wetting agents) is not recommended with FOLI-R-FOS® 400. However, if an adjuvant is used with FOLI-R-FOS® 400, it should be tested before use for compatibility. Due to FOLI-R-FOS® 400's acidic nature, do not use acidifying type compatibility agents.

To determine the compatibility of FOLI-R-FOS® 400 with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to clean container, thoroughly mix, then let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

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

## ORNAMNETALS\*

FOLI-R-FOS® 400 fungicide may be used for suppression of Pythium and Phytophthora diseases of ORNAMNETALS grown in commercial nurseries and greenhouses, golf courses, parks and commercial landscapes. FOLI-R-FOS® 400 may be applied to plants including Aglaonema, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, *Cattelya skinneri*, Ceanothus, Cotoneaster, Cissus, Diffenbachia, Dogwood, Ficus, Hibiscus, Japanese Holly, Juniper, Leather-leaf Fern, Monterey Pine, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses, Schefflera, Sedum, Sempervivum, Spathiphyllum, Taxus media, White Cedar, White Pine, Zygocactus, etc.

Applications should be made prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Do not exceed recommended rates or apply more frequently than the specified intervals or plant injury may occur. Do not apply to plants that are dormant or heat or moisture stressed.

Disease	Application method	Rate	Application program
Phytophthora and Pythium	Foliar	1 to 2 qts./100 gal. (1/3 fl. oz. to 2/3 fl. oz. per gal.)	Apply spray thoroughly wet foliage. Apply at 2-3 week intervals and repeat as needed.
	Soil drench	1 to 2 qts./100 gal. (1/3 fl. oz. to 2/3 fl. oz. per gal.)	Apply 1 gal. of solution per sq. yard and irrigate. Apply at 2-3 week intervals and repeat as needed.
	Soil incorporation	1 to 2 pts./cubic yd.	Mix 1 to 2 pints of product per cubic yard of soil mix immediately before potting. If conditions are favorable for disease development, applications as a foliar spray or soil drench may also be needed.
	Bare root dip at transplant	1 qt./100 gal. (1/3 fl. oz./gal.)	Dip transplants into solution of 1 qt. of product/100 gal. of water to thoroughly wet plant root mass immediately before transplanting. Keep roots submerged for 1 to 2 minutes.

\*Not for use in California

## BEDDING PLANTS\*

FOLI-R-FOS® 400 fungicide may be used for suppression of Pythium and Phytophthora of diseases BEDDING PLANTS grown in commercial nurseries and greenhouses, golf courses, parks and commercial landscapes. FOLI-R-FOS® 400 may be applied to plants including Ageratum, Algerian Ivy, Anthurium, Artemisia, Aster, Baby's Breath, Begonia, Caladium, Carnation, Chrysanthemum, Coleus, Columbine, Daisy, Delphinium, Easter Lily, English Ivy, Foxglove, Gaillardia, Geranium, Gloxinia, Impatiens, Marigold, Pansy, Petunia, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Verbena, Vinca, Zinnia, etc. Applications should be made prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Do not exceed recommended rates or apply more frequently than the specified intervals or plant injury may occur. Do not apply to plants that are heat or moisture stressed.

Disease	Application method	Rate	Application program
Phytophthora and Pythium	Foliar	1 to 2 qts./100 gal. (1/3 fl. oz. to 2/3 fl. oz. per gal.)	Apply spray to thoroughly wet foliage. Apply at 2-3 week intervals and repeat as needed.
	Soil drench	1 to 2 qts./100 gal. (1/3 fl. oz. to 2/3 fl. oz. per gal.)	Apply 1 gal. of solution per sq. yard and irrigate. Apply at 2-3 week intervals and repeat as needed.

\*Not for use in California.

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

FOLI-R-FOS® 400 applied in conjunction with good cultural management practices will suppress Phytophthora root rot of CONIFERS including (but not limited to) Douglas Fir, spruce and pines. Use the higher rates when disease pressure is severe. Do not apply to conifers that are heat or moisture stressed.

Disease	Application method	Rate	Application program
Phytophthora	Foliar	1 to 2 qts./100 gal. (1/3 fl. oz. to 2/3 fl. oz. per gal.)	Apply spray to thoroughly wet foliage. Apply at 2-3 week intervals and repeat as needed.
	Soil drench	1 to 2 qts./100 gal. (1/3 fl. oz. to 2/3 fl. oz. per gal.)	Apply 1 gal. of solution per sq. yard and irrigate. Apply at 2-3 week intervals and repeat as needed.
	Bare root dip at transplant	1 qt./100 gal. (1/3 fl. oz./gal.)	Dip transplants into a solution of 1qt. of product/100 gal. of water to thoroughly wet plant root mass immediately before transplanting. Keep roots submerged for 1 to 2 minutes.

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

\*Not for use in California



## TURF\*

FOLI-R-FOS® 400 is a systemic fungicide which may be used for the suppression of Pythium blight and damping-off diseases of turfgrasses on sod farms, commercial turf production, golf courses, parks and commercial landscapes. Begin preventative applications when conditions first favor disease and repeat at recommended intervals. Use higher rates under severe disease conditions.

Disease	Application method	Rate	Application program
Pythium	Foliar spray	5 to 10 fl. oz./1,000 sq. ft.	Apply recommended amount in 1 to 5 gal. of water per 1,000 sq. ft. Thoroughly wet the foliage. Apply at 7 to 14 day intervals as needed. Do not mow or irrigate treated area until sprays have completely dried.

\*Not for use in California.

## TURF TANK MIXTURES\*

For suppression of summer stress complex caused by a complex of *Pythium* and *Rhizoctonia* diseases, FOLI-R-FOS® 400 may be tank mixed with Fore® WP fungicide and applied to turfgrasses on sod farms, commercial turf production, golf courses, parks and commercial landscapes.

Product	Disease	Rate/1000 sq. ft.	Application program
FOLI-R-FOS® 400 + FORE® WP**	Summer Stress Complex ( <i>Pythium</i> and <i>Rhizoctonia</i> spp.)	5 to 10 fl. oz. FOLI-R-FOS® 400 + 4 to 8 fl. oz. FORE® WP**	Apply as a foliar spray using 1 to 5 gal. of water per 1,000 sq. ft. Begin as a preventive spray and repeat every 14 days as needed. Do not mow or irrigate treated areas until sprays have completely dried.

\*\* Registered trademark of Rohm & Haas.

Do not graze animals on treated turf. Do not feed clippings from treated turf to livestock and poultry.

\*Not for use in California.

## 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 heat sources. 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 the 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 U.I.M. or Seller are hereby excluded. U.I.M. 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 U.I.M. 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. U.I.M.'s liability shall in all circumstances be limited to replacement of the product or a refund of the purchase price paid thereof.