

RELIANT™



SYSTEMIC FUNGICIDE

FOR EFFECTIVE CONTROL OF VARIOUS PLANT DISEASES INCLUDING 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 2 OF THIS BOOKLET FOR FIRST AID & PRECAUTIONARY STATEMENTS

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Date of
Manufacture

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.

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.

AGRICULTURAL USE REQUIREMENTS cont.

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 RELIANTTM 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 THROUGH SPRINKLER IRRIGATION SYSTEMS cont.

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 RELIANTTM 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 RELIANTTM into the irrigation water line so as to deliver the rate per acre. Inject the RELIANTTM 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.

NOTE: For Microjet and Drip Irrigation Systems: After treatment with RELIANTTM 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 RELIANTTM 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.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS cont.

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

RELIANT™ may be applied by various application methods, including foliar spray, soil drench, soil incorporation and bare root dip. For foliar sprays, apply RELIANT™ 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 RELIANT™
2. Add RELIANT™ 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

RELIANT™ is compatible with most products used in agriculture. However, individual crop sensitivity to these mixtures may vary. Mixtures of RELIANT™ 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 RELIANT™'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 RELIANT™.

A jar test should be used to confirm compatibility with RELIANT™ 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.

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

RELIANT™ 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.

ORNAMENTAL APPLICATIONS*

RELIANT™ 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. RELIANT™ 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.

ORNAMENTAL APPLICATIONS* (cont)

Disease	Application Method	Rate	Application Program
Bacterial blight (Xanthomonas campestris) pothovars: dieffenbachiae, fici hed- erae 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.
	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 RELIANT™ into each cubic yard of growing media.
	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.

*Not for use in California.

BEDDING PLANTS*

RELIANT™ may be used for effective control of Downy mildew, Phytophthora and Pythium diseases of BEDDING PLANTS grown in commercial landscapes golf courses, parks, and greenhouses. RELIANT™ 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 of water Or 3/7 - 1 1/8 fl oz / gallon of 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 of water Or 1/3 fl oz - 2/3 fl oz / 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	6 2/7 - 12 2/3 fl. oz. /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

*Not for use in California.

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

RELIANT™ 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 of water or 1/3 fl oz - 2/3 fl oz / gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	1 - 2 qts/100 gallons or 1/3 fl oz - 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.
	Bare root 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*

RELIANT™ 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.

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*

RELIANT™ 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	2.5 pints / 100 gallons of water Or 2/5 fl oz / gallon of water.	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.

*Not for use in California.

TURF*

RELIANT™ 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.

*Not for use in California.

TURF TANK MIXTURES*

For the effective control of summer stress complex caused by a complex of Rhizoctonia and Pythium diseases, RELIANT™ 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
RELIANT™ + FORE® WP** [mancozeb-containing fungicide]	Summer Stress Complex (Rhizoctonia and Pythium spp.)	5 - 10 fl oz RELIANT™ + 4 - 8 fl oz FORE® WP** [mancozeb-containing fungicide]	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.

*Not for use in California.

**Registered trade mark of Rohm & Haas.

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.