

brand

4 Flowable Fungicide

ACTIVE INGREDIENT:

*Equivalent to 4 Lbs. Iprodione per gallon.

CAUTION

For TRANSPORTATION and SPILLS Call CHEMTREC: (800) 424-9300.

Sold By



Net Contents: 2.5 Gallons

	FIRST AID
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 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 by a Poison Control Center or doctor.
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 a poison control center or doctor for treatment advice.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-331-3148.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, others exposed to the concentrate, cleaners/repairers of equipment, and applicators applying as a dip treatment must wear long-sleeve shirt and long pants, chemical-resistant gloves (barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), neoprene rubber (> 14 mils), polyvinyl chloride (PVC) (> 14 mils), or viton (> 14 mils)), chemical-resistant apron, and chemical-resistant footwear plus socks.

Applicators using hand held equipment must wear coveralls over long-sleeve shirt and long pants, chemical-resistant gloves (barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), neoprene rubber (> 14 mils), polyvinyl chloride (PVC) (> 14 mils), or viton (> 14 mils)), chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposures, and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-84A), or a NIOSH approved respirator with any N, R, P or HE filter.

Applicators using aircraft or mechanical ground equipment (ground-boom, airblast, etc.), and flaggers for aerial applications must wear long-sleeve shirt and long pants, and shoes plus socks.

Applicators and all other handlers not specified above must wear long-sleeve shirt and long pants, chemical-resistant gloves (barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), neoprene rubber (> 14 mils), polyvinyl chloride (PVC) (> 14 mils), or viton (> 14 mils)), and shoes plus socks.

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

Discard clothing or other materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENGINEERING CONTROLS

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 clothing/PPE 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

This chemical can contaminate surface water through aerial and ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

This pesticide is toxic to invertebrates. For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any 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 indirectly 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 of 48 hours for grapes. The restricted entry interval for all other WPS uses is 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves (barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), neoprene rubber (> 14 mils), polyvinyl chloride (PVC) (> 14 mils), or viton (> 14 mils)), and shoes plus socks.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

If storing this product below freezing, user should shake or roll the container to ensure proper product consistency. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: 1-(800)-331-3148. To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. Identify contents.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times Offer for recycling, if available, 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, stay out of smoke.

RETURNABLE -- REFILLABLE CONTAINERS

Refillable container. Refill this container with iprodione only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. This material may be repackaged in 30 gallon returnable-refillable containers by FMC Corporation or a registered establishment under contract to FMC Corporation. After use, return the container to the point of purchase or designated locations. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions and damaged or worn out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. If the container is not being refilled, return it to the point of purchase.

USE INSTRUCTIONS AND INFORMATION DIRECTIONS FOR USE THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through sprinkler irrigation systems including microjet, solid set, wheel lines and center pivot. Do not apply this product through any other type of irrigation system.

SPRAY PREPARATION: Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS: First prepare a suspension of ROVRAL® brand 4 Flowable Fungicide in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of ROVRAL® brand 4 Flowable Fungicide, and then the remaining volume of water (1 to 4 gallons of water are recommended). The spray solution should be buffered to a pH of 5.0-7.0. Then set sprinkler to deliver 0.1 to 0.4 inch of water per acre. Start sprinkler and uniformly inject the suspension of ROVRAL® brand 4 Flowable Fungicide into the irrigation water line so as to deliver the specified rate per acre. The suspension of ROVRAL® brand 4 Flowable Fungicide should be injected with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

NOTE: When treatment with ROVRAL® brand 4 Flowable Fungicide has been completed, further field irrigation over the treated area should be avoided for 24 hours to prevent washing the chemical off the crop.

DIRECTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute solution per unit time. The 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 shutdown. 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 switch which will stop the water pump motor when the water pressure switch which will stop the water pump motor when the water pressure switch which will stop the water pump motor when the water pressure switch which will stop the water pump motor when the water pressure switch which will stop the water pump motor when the water pump motor sure 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 beyond the area intended for treatment. If you are unsure of wind conditions, contact your local extension agent.

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 nonuniform distribution of treated 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 the system down and make necessary adjustments should the need arise. 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.

SPRAY DRIFT MANAGEMENT

SENSITIVE AREAS: The pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitats for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making deci-

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulation.

- 1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed. The applicator should be familiar with and take into account the information covered below.

INFORMATION ON DROPLET SIZE: (This section is advisory in nature and does not supersede the mandatory label requirements)

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions

CONTROLLING DROPLET SIZE: (This section is advisory in nature and does not supersede the mandatory label requirements)

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the low-

BOOM LENGTH: (This section is advisory in nature and does not supersede the mandatory label requirements)

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT: (This section is advisory in nature and does not supersede the mandatory label requirements)

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT: (This section is advisory in nature and does not supersede the mandatory label requirements)

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.) WIND: (This section is advisory in nature and does not supersede the mandatory label requirements)

Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: (This section is advisory in nature and does not supersede the mandatory label requirements)

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS: (This section is advisory in nature and does not supersede the mandatory label requirements)

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

HOW TO USE ROVRAL® BRAND 4 FLOWABLE FUNGICIDE

Partially fill the spray tank with clean water. Measure the required amount of ROVRAL® brand 4 Flowable Fungicide and pre-mix with a small volume of water, add this to the tank. Agitate to ensure thorough mixing while filling tank with remaining water. Maintain agitation during mixing while filling tank with remaining water. Maintain agitation during application and apply with properly calibrated application equipment. Do not allow spray mixture to stand overnight or for prolonged periods, as some chemical breakdown may occur, particularly in water with a high pH. The spray solution should be buffered to a pH of 5.0 - 7.0. A high quality, nonionic spreader can be used as a spray tank additive for every application with the exception of in-furrow sprays. ROVRAL® brand 4 Flowable Fungicide should be added to the tank before the addition of any adjuvant. Consult the adjuvant label or manufacturer for crop tolerance and safety information when used with ROVRAL® brand 4 Flowable Fungicide Mixing with very acidic products may result in 4 Flowable Fungicide. Mixing with very acidic products may result in precipitation of ROVRAL® brand 4 Flowable Fungicide.

HOW TO APPLY ROVRAL® BRAND 4 FLOWABLE FUNGICIDE IN-**FURROW FOR COTTON**

Use sprayer equipment calibrated to deliver the registered dose rate of product. Spray nozzles should be configured on the planter to apply the product into the open seed furrow. Spray nozzles are most ideally located to place product after the seed is dropped and before devices which cover the open seed furrow. If you are unsure about disease conditions, contact your local extension agent.

ROVRAL® BRAND 4 FLOWABLE FUNGICIDE IS REGISTERED FOR USE ON THE FOLLOWING:

Field and Row Crops Cotton Peanuts† Fruit Trees and Nuts Almonds Stone Fruits Apricots Cherries Nectarines Peaches Plums Prunes

Gooseberry Grapes Huckleberry Strawberries Vegetables Beans (Snap, Dry, and Lima) Broccol

Carrots Chinese Mustard (Florida Only)

Dry Bulb Onions Garlic Lettuce (Head & Leaf)

Potatoes

Caneberry subgroup 13A (blackberry, loganberry, red and black raspberry,

† Not currently registered for use in California.

and cultivars and/or hybrids of these)

RESTRICTIONS

Ginsenat

Small Fruit

Currants

Elderberry

Use of this product at residential sites is prohibited.

CROP ROTATION RESTRICTIONS FOR BEANS, BROCCOLI, CARROTS, CHINESE MUSTARD, COTTON, DRY BULB ONIONS, GAR-LIC, LETTUCE, PEANUTS, AND POTATOES.

The following crops may be rotated after harvest: Beans, Broccoli, Carrots, Chinese Mustard, Cotton, Dry Bulb Onions, Garlic, Lettuce, Peanuts, and Potatoes.

GRAZING RESTRICTIONS FOR STONE FRUIT, ALMONDS AND GRAPES.

Do not graze animals in treated orchards. Do not feed cover crops grown in treated orchards to livestock.

If applying this product adjacent to a water body such as a lake, reservoir, river, permanent stream, marsh or natural pond, estuary, or commercial fish pond, there must be at least a 25-foot vegetative buffer strip between the water body and the point of application.

Do not apply this product when the wind direction is toward aquatic areas as listed above.

FUNGICIDE RESISTANCE STATEMENT
ROVRAL® brand 4 Flowable Fungicide is a dicarboximide fungicide. Resistance developed to other dicarboximide may result in resistance to ROVRAL®.

FIELD AND ROW CROPS

COTTON

HOW TO USE DISEASE DISEASE FLUID OUNCES PER 1000 FEET OF ROW PER ACRE Apply at-planting using spray nozzles mounted on the planter to deliver the spray solution to the open seed fur- row. Direct the spray in-furrow immediately behind the seed drop tube and before the fur- row closure devices. Apply the higher rate of ROVRAL® brand 4 Flowable Fungicide if the field has a his- tory of high seedling disease pressure or if weather condi- tions favor seedling disease development (e.g. cool and wet). DISEASE FLUID OUNCES PER ROW PER ACRE ACRE ACRE RHizoctonia solani) Sin'' (Rhizoctonia solani) Sin'' (Rhizoctonia solani) Sin'' (Rhizoctonia solani) Sin'' ACRE ACRE			D	OSAGE RA	TE
nozzles mounted on the planter to deliver the spray solution to the open seed furrow. Direct the spray in-furrow immediately behind the seed drop tube and before the furrow closure devices. Apply the higher rate of ROVRAL® bright as a history of high seedling disease pressure or if weather conditions favor seedling disease development (e.g. cool and	HOW TO USE	DISEASE	OUNCES PER 1000 FEET OF	OUNCES PER ROW SPACING	WATER PER
	nozzles mounted on the planter to deliver the spray solution to the open seed furrow. Direct the spray in-furrow immediately behind the seed drop tube and before the furrow closure devices. Apply the higher rate of ROVRAL® brand 4 Flowable Fungicide if the field has a history of high seedling disease pressure or if weather conditions favor seedling disease development (e.g. cool and	Shin"	0.25 - 0.5	38"=3.4-6.9 36"=3.6-7.3	

RESTRICTIONS:

Do not allow grazing or feeding of cotton forage to livestock

PEANUTS*

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply using a tractor mounted spray boom equipped with hollow cone or low pressure nozzles (e.g. 8008LP, 8010LP or TK7.5 that produce large droplets). Nozzles should be adjusted to provide complete coverage of the row. Vine spreaders may be used in combination with flat fan nozzles for banding. Applications may also be made by chemigation.	Blight (Sclerotinia	2.0**	40 Minimum	conditions first	applications per season. A maxi- mum of 6 pints product per season may be applied. Do not apply within
**Applications at lov	wer rates may	not be effi	cacious		

FRUIT TREE AND NUTS

ALMONDS

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
ROVRAL® brand 4 Flowable Fungicide should be used as an integral part of a complete disease control program. Apply as a foliar spray in sufficient water to obtain thorough coverage of blossoms, foliage, and/or fruit The use of aerial application after petal fall may result in reduced control due to lack of canopy penetration and coverage. Tank Mix Program Apply as a tank mix with CAPTAN 50WP to broaden disease control. All applicable directions, restrictions, and precautions on the CAPTAN 50WP label are to be fol- lowed.	Blossom Blight (Monilinia laxa) Shot Hole (Wilsonomy ces carpophilus) Alternaria Leaf Spot (Alternaria alternata) Jacket Rot (Botrytis cinerea) Brown Rot Blossom Blight (Monilinia laxa) Shot Hole (Wilsonomyces	1.0 pint/A Rovral Brand 4 Flowable Fungicide PLUS 4 – 6 Ibs./A Captan 50WP	20 – 300 (ground) 15 Minimum (air)	Table Apply first at pink bud and, if conditions favorable for disease development, persist or recur up to 3 subsequent applications can be made at: 1) full bloom 2) petal fall 3) up to 5 weeks after petal fall. The optimal timing for Jacket Rot control is full bloom. Applications may be made up to 5 weeks after petal fall for Alternaria. If conditions remain conducive for the development of Alternaria	Do not make more than 4 applications per season. Do not apply beyond 5 weeks after petal fall.

STONE FRUIT

APRICOTS, CHERRIES, NECTARINES, PEACHES, PLUMS AND **PRUNES**

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
ROVRAL® brand 4 Flowable Fungicide should be used as an integral part of a complete disease control program. Apply as a foliar spray in sufficient water to obtain thorough coverage of blossoms and foliage. Under severe dis- ease conditions, use the higher specified rate and shorter specified spray interval.	Blossom Blight (Monilinia spp.) Shot Hole (Wilsonomyces carpophilus) Scab (Cladosporium carpophilum) Jacket Rot (Botrytis		20 to 400 (ground) 15 Minimum (air)	sue is susceptible to disease develop- ment (i.e., pink, white or red bud). If	season. Do not exceed 4 pints product per acre

GINSENG*

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
ROVRAL® brand 4 Flowable Fungicide should be used as part of a complete spray program. Apply as a foliar	Blight (Alternaria panax)	1.5 - 2.0	10 Minimum	Make the first application when conditions become favorable for disease development. Continue applications on a 14 day	than 5 applications per season. Do not exceed 10 pints product per acre per season.
spray in sufficient water to obtain thorough coverage using ground equipment.				interval if using the alternating spray program.	Do not apply within 36 days of harvest (PHI = 36 days).
Alternating Program: Use as an alternating treatment on a 14 day interval with another fungicide registered for control of Alternaria Blight.					
Tank Mix Program: Apply as a tank mix with another fungicide regis- tered for control of Alternaria Blight.	Alternaria Blight (Alternaria panax)	1.0 - 1.5	10 Minimum	Make the first application when conditions become favorable for disease development. Continue on a 7 to 10 day interval.	Do not use more than 7.5 pints per acre per season. Do not apply within 36 days of harvest (PHI = 36 days).

^{*} Not currently registered for use in California.

SMALL FRUIT
CANEBERRY Subgroup 13A: BLACKBERRY; LOGANBERRY; RED
AND BLACK RASPBERRY; CULTIVAR AND/OR HYBRIDS OF
THESE

OTHER: CURRANT; ELDERBERRY; GOOSEBERRY; HUCKLEBERRY

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply as a foliar spray with ground equipment in sufficient water to obtain thorough coverage of blossoms and fruit. Under severe disease conditions, use the higher specified rate.	Fruit Rot (Botrytis			bloom) and again at full bloom. Two additional applica- tions can be	than 4 applications per season. Do not exceed 8 pints product per acre per season. The final applica- tion can be made

GRAPES

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply as a foliar spray in sufficient water to obtain thorough coverage. The application equipment should be calibrated and adjusted to direct the spray at the bunches to ensure thorough coverage. Application may be made by chemigation except in the state of New York. Under severe disease conditions, use the higher specified. This product must be used in conjunction with good cultural practices designed to mini-	Bunch Rot (Botrytis cinerea)	1.0-2.0 1.5-2.0 1.5-2.0	50 Minimum	Early to mid-bloom Prior to bunch closing Beginning of fruit ripening (veraison) Final application prior to harvest as needed.	than 4 applications per season. Do not exceed 8 pints per acre per season. The final application may be made up to 7 days before
mize conditions conducive for Bunch Rot devel- opment. Thorough cover- age of the bunch- es is essential.		Table and Raisin Grapes: 1.0-2.0	50 Minimum	Early to mid-bloom	Do not make more than one application per season. Do not exceed 2 pints product per acre per season on table and raisin grapes.

STRAWBERRIES

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
DIP Dip the transplants in the solution for 1 to 5 minutes and plant immediately.	Crown Rot (Botrytis cinerea)	2.0	2.0	Apply as a preplant dip immediately prior to planting.	Do not make more than 1 application per season.
FOLIAR SPRAY Apply as a foliar spray in not less than 100 gallons of water per acre. Aerial applications can be made with a minimum of 10 gallons of water per acre. Thorough coverage is essential for disease control. Under severe disease conditions, use the higher specified rate. *ROYRAL® brand 4 Flowable Fungicide will suppress or give partial control of this disease.	Gray Mold (B ot ry t is sinerea) Stem End Rot (Gnomonia comari) Phomopsis Soft Rot (Phomopsis obscurans) Purple Leaf Spot (Mycosphae rella spp.) Anthracnose* (Colletotrich um spp.)	1.5 - 2.0	1	Apply when conditions are favorable for disease development.	Do not make more than 1 application per season. Do not exceed 2 pints product per acre per season. Do not apply ROVRAL® brand 4 Flowable Fungicide after first fruiting flower.
Tank Mix Program Apply as a tank mix with another fungi- cide registered for control of Gray Mold on straw- berries. *ROVRAL® brand 4 Flowable Fungicide will suppress or give partial control of this disease.		1.0	-	Apply when conditions are favorable for disease development.	Do not make more than 1 application per season. Do not exceed 1 pint product per acre per season. Do not apply ROVRAL® brand 4 Flowable Fungicide after first fruiting flower.

VEGETABLES BEANS (Snap, Dry, and Lima)

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
	(Botrytis cinerea) White Mold (Sclerotinia sclerotio-	1.5 to 2.0	40 Minimum (ground) 10 Minimum (air)	to when 10% of the plants have one open bloom and again 5-7 days later or up to peak	maximum per sea- son, with the last application made no later than peak bloom. Do not exceed 4 pints product per

BROCCOLI

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply with a tractor-mounted boom sprayer with 2 flat fan nozzles per row (one on either side) directed at the base of the plant and the adjacent soil surface. Position nozzles to ensure thorough coverage of the stem. Application may be made by chemigation.	(Leptospha	2.0	40 Minimum (ground)	after thinning (2 to 4 leaf stage) as a directed spray to	per crop. Do not exceed 4 pints product per acre per crop.

CARROTS

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply as a foliar spray in sufficient water to obtain thorough coverage. May be applied by ground, chemigation, or aerial equipment. Use the higher specified rate and/or shorter specified spray interval under severe disease conditions.	Blight (Alternaria dauci)	1.0 - 2.0	10 Minimum	Make the first application as conditions become favorable for disease development. Continue applications on a 7 to 14 day interval as long as conditions favor disease development.	of this product per
Tank Mix Program Apply as a tank mix with another fungi- cide registered for control of Alternaria on car- rots.	Blight (Alternaria	1.0	10 Minimum	Make the first application as conditions become favorable for disease development. Continue applications on a 7 to 10 day interval as long as conditions favor disease development.	than 10 applica- tions per season. Do not exceed 10 pints product per

CHINESE MUSTARD (For Use In Florida Only)

		DOSAGE RATE			
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply as a foliar spray in sufficient water to obtain thorough coverage.		1.0	50 Minimum	Make the first application as conditions become favorable for disease development. Continue applications on a 10-14 day interval as long as conditions favor disease development.	than 4 applications of this product per season. Do not exceed 4 pints product per acre per season. Do not apply within 10 days of harvest

DRY BULB ONIONS

		DOSAGE RATE			
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply using ground, air, or chemigation equipment. For ground applications, use a boom sprayer with either a single or multiple nozzles per row adjusted to provide complete coverage of each row.	Leaf Blight (Botrytis squamosa) Purple Blotch (Alternaria porri)	1.5	10 Minimum (aerial) 50 Minimum (ground)	conditions become favorable for dis- ease development. Continue applica-	than 5 applications per season. Do not
Tank Mix Program Apply as a tank mix with another fungi- cide registered for the control of Botrytis Leaf Blight, Botrytis Neck Rot or Purple Blotch (as described above for ground application).	Leaf Blight (Botrytis squamosa) Purple Blotch (Alternaria porri) Botrytis	1.0	10 Minimum (aerial) 50 Minimum (ground)	conditions become favorable for dis-	than 10 applica- tions per season. Do not exceed 10

GARLIC

		DOSAGE RATE			
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply as an in-fur- row spray in suffi- cient water to obtain thorough coverage of the open furrow and covering soil.	(Sclerotium cepivorum)	4.0*	20 Minimum	Apply in the furrow at planting.	Do not make more than 1 application per year. Do not exceed 4 pints product per acre per year.

*This rate is based on pints product/treated acre and represents the rate for a 38 - 40 inch row spacing.

LETTUCE (head & leaf)

		DOSAG	E RATE		
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply as a foliar spray in sufficient water to obtain thorough coverage. Ground application should be made with a tractor mounted boom sprayer equipped with three nozzles per seed line (one centered over the row and one on each side of the row) with two nozzles directed to ensure thorough coverage of the lower portion of the plants and the surrounding soil surface. Under severe disease conditions use the higher specified rates. * When applying in a band do not reduce the acre rate. Applications may also be made by air** or chemigation.	Drop		40 Minimum		than 3 applications to each crop. Do not exceed 6 pints product per acre

POTATOES

		DOSAGE RATE			
HOW TO USE	DISEASE	PINTS PER ACRE	GALS. WATER PER ACRE	WHEN TO APPLY	USE RESTRICTIONS
Apply with a boom sprayer with a single or multiple nozzles adjusted to provide thorough coverage of the foliage, particularly the older leaves. Under severe disease conditions use the higher specified rate for Early Blight. Application can also be made by chemigation or by air. When applying by sprinkler irrigation, deliver between 0.1 to 0.4 inches of water per acre.	Blight (Alternaria	1.0 - 2.0	10 Minimum		season. Do not exceed 8 pints product per acre
Apply with a boom sprayer using a single or multiple nozzles adjusted to provide thorough coverage of the lower stems and branches and the soil surface surrounding the plants or by chemigation. Thorough coverage is essential for control.	(Sclerotinia sclerotio-	2.0	10 Minimum		total applications can be made per season. Do not exceed 8 pints product per acre

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