4 Flowable Fungicide

EPA Reg. No. 279-9564     EPA Est. No.: 279-NY-1

ACTIVE INGREDIENT:
Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-
1-imidazolidinecarboxamide* ....................................... 41.6%
OTHER INGREDIENTS: ........................................ 58.4%
TOTAL ............................................... 100.0%

*Equivalent to 4 Lbs. Iprodione per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

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

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 such as 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 such as 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-21C), 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 such as 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, 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.

FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103

Net Contents: 2.5 Gallons

02-01-12R
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) - (e)], 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 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 overlying 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 directly to water or to areas where surface water is present or to intertidal or submerged areas. Inadequately drained areas may contaminate surface waters, frequently flooded areas, or areas overlaying extremely deep aquifers.

Do not apply this product in a way that will contact workers or other persons, either directly or indirectly 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.

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

PESTICIDE DISPOSAL
Wastes resulting from the use of this product may be disposed of on site 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 container (or equivalent) promptly after emptying, or store container for at least 48 hours in an appropriately labeled container, or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for at least 48 hours in an appropriately labeled container, or mix tank and drain for 10 seconds after the flow begins to drip. Repeat this rinsing 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.

GENERAL INSTRUCTIONS AND INFORMATION

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 ≥ 14 mils. Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying, or store container for at least 48 hours in an appropriately labeled container, or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for at least 48 hours in an appropriately labeled container, or mix tank and drain for 10 seconds after the flow begins to drip. Repeat this rinsing 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.

GENERAL PRECAUTIONS 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 approximately 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 pump 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 pres-
sure 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 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 on irrigation system. 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 to apply pesticides to a public water system unless the label-prescribed safety devices for public water supplies are in place.

**AERIAL SPRAY DRIFT**

**SENSITIVE AREAS:** The pesticide should 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 sensitive areas).

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 decisions.

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 should be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

**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 below).

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

- **Volume:** Use the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **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:** Orient nozzles so that the spray is released parallel to the airstream to produce 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 moist nozzle type, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**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 vegetation 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 droplets, 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. Whenever given the choice, 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)

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 is indicated by 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, which may move 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 application and apply with properly calibrated application equipment. Do not allow spray mixture to stand overnight or for prolonged periods. Keep dry formulation in a cool, dry place. DO NOT RE-GRIND FORMULATION TO REDUCE USE.

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

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**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 3-4 inches back from the open seed furrow. Sprayers must be so applied that product is delivered to the soil surface at the point of seedling emergence. The amount of product in the seed furrow is not critical. The key is to deliver the product to the soil when the seedling emerges. The registered dose rate is low and does not require spraying the whole field in order to have a positive effect on disease control.

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

<table>
<thead>
<tr>
<th>Field and Row Crops</th>
<th>Small Fruit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton</td>
<td>Berries</td>
</tr>
<tr>
<td>Peanut</td>
<td>(except blueberries)</td>
</tr>
<tr>
<td>Fruit Trees and Nuts</td>
<td>Grapes</td>
</tr>
<tr>
<td>Almonds</td>
<td>Strawberries</td>
</tr>
<tr>
<td>Stone Fruits</td>
<td>Vegetables</td>
</tr>
<tr>
<td>Apricots</td>
<td>Beans (Snap, Dry, and Lima)</td>
</tr>
<tr>
<td>Cherries</td>
<td>Broccoli</td>
</tr>
<tr>
<td>Nectarines</td>
<td>Carrots</td>
</tr>
<tr>
<td>Peaches</td>
<td>Chinese Mustard (Florida Only)</td>
</tr>
<tr>
<td>Peas</td>
<td>Dry Bulb Onions</td>
</tr>
<tr>
<td>Prunes</td>
<td>Garlic</td>
</tr>
<tr>
<td>Ginsengt</td>
<td>Lettuce (Head &amp; Leaf types)</td>
</tr>
<tr>
<td>Potatoes</td>
<td>Potatoes</td>
</tr>
</tbody>
</table>

* Rovral® brand 4 Flowable Fungicide is not registered for use on blueberries. Do not use on any variety of blueberries.

† Not currently registered for use in California.

**GENERAL PRECAUTIONS AND RESTRICTIONS**

Use of this product at residential sites is prohibited.

**CROP ROTATION RESTRICTIONS FOR BEANS, BROCCOLI, CARROTS, CHINESE MUSTARD, COTTON, DRY BULB ONIONS, GARLIC, LECITTE, PEANUTS, AND POTATOES.**

The following crops may be infected 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 crop grown in treated orchards to livestock.
If you are unsure about disease conditions, contact your local extension agent.

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 dicarboximides, such as Ronilan®, may result in resistance to ROVRAL®. Therefore, DO NOT EXTEND THE TOTAL NUMBER OF APPLICATIONS PER CROP ON THIS LABEL with ROVRAL®. DO NOT TANK MIX THIS PRODUCT WITH RONILAN®.

**APPLICATION INSTRUCTIONS**

**FIELD AND ROW CROPS**

<table>
<thead>
<tr>
<th>COTTON</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HOW TO USE</strong></td>
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<tr>
<td></td>
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<tr>
<td>Apply at-planting using spray nozzles mounted on the planter to deliver the spray solution to the open seed furrow.</td>
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</tbody>
</table>

**PEANUTS**

<table>
<thead>
<tr>
<th><strong>HOW TO USE</strong></th>
<th><strong>DISEASE</strong></th>
<th><strong>DOSAGE RATE</strong></th>
<th><strong>WHEN TO APPLY</strong></th>
<th><strong>USE RESTRICTIONS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply using a f tower mounted spray boom equipped with hollow cone or low pressure nozzles (e.g. 8010LP, 8010LP or TK 7.5 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. The two pint per acre rate needs to be used in the band. Applications may also be made by chemical.</td>
<td>Sclerotinia Blight (Sclerotinia minor)</td>
<td>2.0</td>
<td>40</td>
<td>15 Minimum</td>
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<td></td>
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<td></td>
<td>Make the initial application when conditions first become favorable for disease development. Up to two subsequent applications should be made at 14 to 21 day intervals. For best results apply using a preventative program.</td>
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<td>A maximum of 3 applications or 6 lbs. of product can be applied per season with the last spray being at least 2.0 lbs./Acre. Do not apply within 10 days of harvest. (PHI = 10 days). Do not apply by air. Do not feed peanut hay to livestock.</td>
</tr>
</tbody>
</table>

**FRUIT TREE AND NUTS**

**ALMONDS**

<table>
<thead>
<tr>
<th><strong>HOW TO USE</strong></th>
<th><strong>DISEASE</strong></th>
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<th><strong>USE RESTRICTIONS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank Mix Program</td>
<td>Brown Rot Blossom Blight (Monilinia laxa)</td>
<td>1.0</td>
<td>20 – 400</td>
<td>15 Minimum (air)</td>
</tr>
<tr>
<td></td>
<td>Shot Hole (Wisonomyces carpopthorus)</td>
<td>4</td>
<td>4 – 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alternaria Leaf Spot (Alternaria alternata)</td>
<td>PLUS</td>
<td>15 Minimum (air)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jacket Rot (Botrytis cinerea)</td>
<td>2</td>
<td>1.0</td>
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</tbody>
</table>

The table below is only recommended as a general guideline. Applications should be based on local disease and growing conditions. Contact your local extension agent for regional recommendations.

**Spray Schedule**

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 leaf spot beyond 5 weeks after petal fall, additional applications of a fungicide effective against Alternaria will be necessary since Rovral is not labeled for use on almonds beyond 5 weeks after petal fall.

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

<table>
<thead>
<tr>
<th><strong>HOW TO USE</strong></th>
<th><strong>DISEASE</strong></th>
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<th><strong>USE RESTRICTIONS</strong></th>
</tr>
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<tbody>
<tr>
<td>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 disease conditions, the higher rate and shorter spray intervals are recommended.</td>
<td>Brown Rot Blossom Blight (Monilinia spp.)</td>
<td>1.0</td>
<td>20 to 400</td>
<td>15 Minimum (air)</td>
</tr>
<tr>
<td></td>
<td>Shot Hole (Wisonomyces carpopthorus)</td>
<td>2.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scal (Cladosporium carpopthorus)</td>
<td>PLUS</td>
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</tbody>
</table>

Do not make more than 2 applications of this product per season. This product may not be applied after petal fall.
**SMALL FRUIT**

**BERRIES**

Canberry: Blackberry; loganberry; red and black raspberry; cultivar and/or hybrids of these

Bushberry*: Currant; elderberry; gooseberry; huckleberry

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Alternaria Blight (<em>Alternaria panax</em>)</td>
<td>1.0 - 2.0</td>
<td>10 Minimum</td>
<td>Make the first application when conditions become favorable for disease development. Continue applications on a 14 day interval if using the alternating spray program. Do not apply more than 5 applications per season. Do not apply within 36 days of harvest (PHI = 36 days).</td>
</tr>
<tr>
<td></td>
<td><strong>ROVAL® brand 4 Fl owable Fungicide</strong> should be used as part of a complete spray program. Apply as a foliar spray in sufficient water to obtain thorough coverage using ground equipment. Video Alternating Program: Use as an alternating treatment on a 14 day interval with another fungicide registered for control of Alternaria Blight.</td>
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<tr>
<td></td>
<td>Alternaria Blight (<em>Alternaria panax</em>)</td>
<td>1.0 - 1.5</td>
<td>10 Minimum</td>
<td>Make the first application when conditions become favorable for disease development. Do not apply more than 10 lbs. per season. Do not apply within 36 days of harvest (PHI = 36 days).</td>
</tr>
<tr>
<td>Tank Mix Program: Apply as a tank mix with another fungicide registered for control of Alternaria Blight.</td>
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</tr>
</tbody>
</table>

*Not currently registered for use in California.

**GRAPE**

**Bushberry**: Currant; elderberry; gooseberry; huckleberry

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<tr>
<td></td>
<td>B o t r y t i s Fruit Rot (<em>Botrytis cinerea</em>)</td>
<td>1.0 - 2.0</td>
<td>100 Minimum</td>
<td>Make the first application at early bloom (5 to 10% bloom) and again at full bloom. Two additional applications can be applied at 14 day intervals or as required. Do not use more than 4 applications per season. Do not apply within 36 days of harvest (PHI = 36 days).</td>
</tr>
</tbody>
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**VEGETABLES**

**BEANS (Snap, Dry, and Lima)**

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<tr>
<td></td>
<td>Gray Mold (<em>Botrytis cinerea</em>)</td>
<td>1.0 - 2.0</td>
<td>10 Minimum</td>
<td>Apply as a foliar spray at first bloom to when 10% of the plants have one open bloom and again 5-7 days later or up to peak bloom, if conditions are favorable for disease development. Do not make more than 1 application per season. Do not use this product on cowpeas.</td>
</tr>
<tr>
<td></td>
<td>White Mold (<em>Sclerotinia sclerotiorum</em>)</td>
<td>1.0 - 2.0</td>
<td>10 Minimum</td>
<td>Apply as a foliar spray at first bloom to when 10% of the plants have one open bloom and again 5-7 days later or up to peak bloom, if conditions are favorable for disease development. Do not make more than 1 application per season. Do not use this product on cowpeas.</td>
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**APPLES**

**BERRY**

**Bushberry**: Currant; elderberry; gooseberry; huckleberry

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<tr>
<td></td>
<td>Crown Rot (<em>Botrytis cinerea</em>)</td>
<td>--</td>
<td>2.0</td>
<td>Apply as a preplant dip immediately prior to planting. Do not make more than 1 application. Do not apply ROVAL® brand 4 Fl owable Fungicide after first fruiting flower.</td>
</tr>
<tr>
<td></td>
<td>Black Mold (<em>Botrytis cinerea</em>)</td>
<td>1.5 - 2.0</td>
<td>--</td>
<td>Apply when conditions are favorable for disease development. Do not make more than 1 application per season. Do not apply ROVAL® brand 4 Fl owable Fungicide after first fruiting flower.</td>
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<td></td>
<td><strong>ROVAL® brand 4 Fl owable Fungicide</strong> should be used as part of a complete spray program. Apply as a foliar spray in sufficient water to obtain thorough coverage using ground equipment. Video Alternating Program: Use as an alternating treatment on a 14 day interval with another fungicide registered for control of Alternaria Blight.</td>
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<tr>
<td></td>
<td>Alternaria Blight (<em>Alternaria panax</em>)</td>
<td>1.0 - 2.0</td>
<td>10 Minimum</td>
<td>Make the first application when conditions become favorable for disease development. Continue applications on a 14 day interval if using the alternating spray program. Do not apply more than 5 applications per season. Do not apply within 36 days of harvest (PHI = 36 days).</td>
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**ALTERNATIVE**

**SOW B E R R I E S**

**Berry**: Currant; elderberry; gooseberry; huckleberry

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<tr>
<td></td>
<td>B o t r y t i s Fruit Rot (<em>Botrytis cinerea</em>)</td>
<td>1.0 - 2.0</td>
<td>100 Minimum</td>
<td>Make the first application at early bloom (5 to 10% bloom) and again at full bloom. Two additional applications can be applied at 14 day intervals or as required. Do not use more than 4 applications per season. Do not apply within 36 days of harvest (PHI = 36 days).</td>
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*ROVAL® brand 4 Fl owable Fungicide is not registered for use on blueberries. Do not use on any variety of blueberries.

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### BROCCOLI

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<tr>
<td>Apply with a tractor-mounted boom sprayer with 2 flat fan nozzles per row (one on each 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.</td>
<td>CARROTS</td>
<td>Black Leg (Leptosphaeria maculans)</td>
<td>2.0</td>
<td>40 Minimum (ground)</td>
</tr>
<tr>
<td>Apply as a foliar spray in sufficient water to obtain thorough coverage. May be applied by ground, chemigation, or aerial equipment. The higher rate and/or shorter spray interval should be used under severe disease conditions.</td>
<td>BROCCOLI</td>
<td>B R O C C O L I</td>
<td>40 Minimum (ground)</td>
<td>Apply immediately after thinning (6 to 4 leaf stage) as a directed spray to the base of the plant and the adjacent soil surface. Do not make more than 2 applications per crop. Do not drench. The product can be applied up to the day of harvest (PHI = 0 days).</td>
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<td>2.0</td>
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<td>40 Minimum (ground)</td>
<td>Spray in sufficient water to obtain thorough coverage. Do not make more than 2 applications per crop. Do not drench. This product can be applied up to the day of harvest (PHI = 0 days).</td>
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### CARROTS

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<td>40 Minimum (ground)</td>
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### CHINESE MUSTARD (For Use In Florida Only)

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<tr>
<td>Apply as a foliar spray in sufficient water to obtain thorough coverage.</td>
<td>CARROTS</td>
<td>Ap p l y a s a f o li a r s p r ay in s u ffi cient w ater to o b tain t horough cov erage.</td>
<td>2.0</td>
<td>40 Minimum (ground)</td>
</tr>
<tr>
<td>Apply as a foliar spray in sufficient water to obtain thorough coverage.</td>
<td>BROCCOLI</td>
<td>A p p l y as a foliar s p ray in s u ffi cient w ater to o b tain t horough cov erage.</td>
<td>40 Minimum (ground)</td>
<td>Spray in sufficient water to obtain thorough coverage. Do not make more than 2 applications per crop. Do not drench. This product can be applied up to the day of harvest (PHI = 0 days).</td>
</tr>
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<td>CARROTS</td>
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<td>2.0</td>
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<td>40 Minimum (ground)</td>
<td>Spray in sufficient water to obtain thorough coverage. Do not make more than 2 applications per crop. Do not drench. This product can be applied up to the day of harvest (PHI = 0 days).</td>
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### LETTUCE (head & leaf types)

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<tr>
<td>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 the higher rate should be used. When applying in a band do not reduce the acre rate. Applications may also be made by air* or chemigation.</td>
<td>CARROTS</td>
<td>L e a f s p o t (Alternaria leaf spot)</td>
<td>1.5</td>
<td>40 Minimum (ground)</td>
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<tr>
<td>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 the higher rate should be used. When applying in a band do not reduce the acre rate. Applications may also be made by air* or chemigation.</td>
<td>BROCCOLI</td>
<td>B R O C C O L I</td>
<td>40 Minimum (ground)</td>
<td>Apply from planting to just after thinning and again 10 days later. If conditions still favor disease development, a third application should be made 10 days after the second spray. Do not make more than 3 applications per season. Do not apply within 14 days of harvest (PHI = 14 days). **Aerial application can only be used for the first spray (between planting and thinning stage).</td>
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### LETTUCE (head & leaf types)

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<th>Use Restrictions</th>
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<tbody>
<tr>
<td><strong>Early Blight</strong> (Alternaria solani)</td>
<td>1.0 - 2.0</td>
<td>Begin applications when conditions first become favorable for disease development. Up to 3 subsequent applications can be applied at 10-14 day intervals or as required.</td>
<td>A maximum of 4 total applications can be made per season. Do not apply within 14 days of harvest. (PHI ≥ 14 days). Do not irrigate for 24 hours after application.</td>
</tr>
<tr>
<td><strong>White Mold</strong> (Sclerotinia scleroti-rum)</td>
<td>2.0</td>
<td>Apply just prior to row closing, or at early first sign of disease, and repeat on a 14 - 21 day interval, if favorable conditions for disease development continues.</td>
<td>Do not apply by air for White Mold control except in California.</td>
</tr>
</tbody>
</table>

**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 the higher rate should be used 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.**

Thorough coverage is essential for control.

**Begin applications when conditions first become favorable for disease development. Up to 3 subsequent applications can be applied at 10-14 day intervals or as required.**

A maximum of 4 total applications can be made per season. Do not apply within 14 days of harvest. (PHI ≥ 14 days). Do not irrigate for 24 hours after application.

Do not apply by air for White Mold control except in California.

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