



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

AUG 8 2008

Gregory C. Mattern  
Regulatory Product Manager  
Bayer CropScience LP  
P.O. Box 12014  
2 T.W. Alexander Drive  
Research Triangle Park, NC 27709

Subject: Label Notifications for Pesticide Registration Notice 2007-4

Dear Mr. Mattern,

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated June 30, 2008 for the following products:

<b>Iprodione Technical</b>	<b>EPA Registration Number 264-452</b>
<b>Rovral® Fungicide</b>	<b>EPA Registration Number 264-453</b>
<b>Fosetyl-Al Technical</b>	<b>EPA Registration Number 264-466</b>
<b>Aliette® WDG Fungicide</b>	<b>EPA Registration Number 264-516</b>
<b>Iprodione 50.0%</b>	<b>EPA Registration Number 264-558</b>
<b>Pyrimethanil Technical</b>	<b>EPA Registration Number 264-704</b>
<b>SCALA™ brand 400 SC Fungicide</b>	<b>EPA Registration Number 264-705</b>
<b>SCALA™ brand SC Fungicide</b>	<b>EPA Registration Number 264-788</b>

The Registration Division (RD) has conducted its review of these requests for their applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN 2007-4. The labels submitted with the application have been stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

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If you have any questions, please call me directly at 703-305-6249 or Steve Schaible of my staff at 703-308-9362.

Sincerely,



Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 264-453	2. EPA Product Manager Mary Waller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Rovral Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Bayer CropScience LP P.O. Box 12014, 2 T.W. Alexander Drive Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <b>NOTIFICATION</b> EPA Reg. No. _____ AUG 08 2008 Product Name _____

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40CFR part 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40CFR part 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under section 12 and 14 of FIFRA.

Contact info.: gregory.mattern@bayercropscience.com 919-549-2630

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted					
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 2 lbs, 1 kg, or 400 kg	5. Location of Label Directions <input type="checkbox"/>			
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gregory C. Mattern	Title Regulatory Product Manager	Telephone No. (Include Area Code) (919) 549-2630
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Gregory C. Mattern</i>	3. Title Regulatory Product Manager	
4. Typed Name Gregory C. Mattern	5. Date June 30, 2008	

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**NOTIFICATION**

**AUG 08 2008**

# ROVRAL® Fungicide

**ACTIVE INGREDIENT:**

Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide ..... 50.0%

**INERT INGREDIENTS:** ..... 50.0%

**EPA Reg. No. 264-453**

**EPA Est. No.: 264-MO-02**

## KEEP OUT OF REACH OF CHILDREN CAUTION

For **MEDICAL** And **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577

For **PRODUCT USE** Information Call 1-866-99BAYER (1-866-992-2937)

### FIRST AID

IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF INHALED:	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
For <b>MEDICAL</b> Emergencies Call 24 Hours A Day 1-800-334-7577. 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 absorbed through skin or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

##### Personal Protective Equipment (PPE)

Mixers, loaders, others exposed to the concentrate, cleaners/repairers of equipment, and applicators applying as a dip treatment must wear coveralls over long-sleeve shirt and long pants, chemical-resistant gloves (such as or made out of any waterproof material), chemical-resistant footwear plus socks, chemical-resistant apron, 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 handheld equipment must wear coveralls over long-sleeve shirt and long pants, chemical-resistant gloves (such as or made out of any waterproof material), 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 mechanical ground equipment (groundboom, airblast, etc.) 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 or made out of any waterproof material), 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.

##### ENGINEERING CONTROLS

When handlers use closed systems 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.

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### 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 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. 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 a manner inconsistent with its labeling.  
Read entire label before using this product.

Do not apply this product in a way that will contact workers or other persons, either directly or 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 (such as or made out of any waterproof material), and shoes plus socks.

### 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 or at an approved waste disposal facility.

#### CONTAINER DISPOSAL

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, burning. If burned, stay out of the smoke.

### GENERAL INSTRUCTIONS AND INFORMATION

#### HOW TO USE ROVRAL® BRAND FUNGICIDE

Partially fill the spray tank with clean water. Measure the required amount of ROVRAL® Brand 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, 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 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 Fungicide. Mixing with very acidic products may result in precipitation of ROVRAL® brand Fungicide.

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## HOW TO APPLY ROVRAL® BRAND 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.

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

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### Field and Row Crops

Cotton  
Peanuts

### Fruit Trees and Nuts

Almonds  
Stone Fruits  
Apricots  
Cherries  
Nectarines  
Peaches  
Plums  
Prunes

### Small Fruit

Berries (except blueberries) \*  
Grapes  
Strawberries

### Vegetables

Beans (Snap, Dry, and Lima)  
Broccoli  
Carrots  
Chinese Mustard (Florida Only)  
Dry Bulb Onions  
Garlic  
Lettuce (Head & Leaf types)  
Potatoes

### Ginseng

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

## GENERAL PRECAUTIONS AND RESTRICTIONS

Use of this product at residential sites is prohibited.

Do not use ROVRAL® brand Fungicide for aerial and chemigation applications.

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

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

### 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 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.

## FUNGICIDE RESISTANCE STATEMENT

ROVRAL® Brand Fungicide is a dicarboximide fungicide. Resistance developed to other dicarboximide, such as Ronilan® may result in resistance to ROVRAL®. Therefore, DO NOT EXTEND THE TOTAL NUMBER OF APPLICATIONS PER CROP ON THIS LABEL WITH RONILAN®. DO NOT TANK MIX THIS PRODUCT WITH RONILAN®.

## APPLICATION INSTRUCTIONS

### FIELD AND ROW CROPS

#### COTTON\*

HOW TO USE	DISEASE	DOSAGE RATE		
		OUNCES PER 1000 FEET OF ROW	TOTAL OUNCES PER ROW SPACING PER ACRE	GALS. WATER PER ACRE
<p>Apply at-planting using spray 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.</p> <p>Apply the higher rate of ROVRAL® Fungicide if the field has a history of high seedling disease pressure or if weather conditions favor seedling disease development (e.g. cool and wet).</p>	<b>Damping-off, "Sore Shin"</b> ( <i>Rhizoctonia solani</i> )	0.25 - 0.5	40"=3.2 - 6.5 38"=3.4 - 6.9 36"=3.6 - 7.3 30"=4.4 - 8.7	2.5  Minimum

- \* Not currently registered for use in California.
- Do not allow grazing or feeding of cotton forage to livestock.

#### PEANUTS\*

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
<p>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.</p> <p>Vine spreaders may be used in combination with flat fan nozzles for banding. The two pounds per acre rate needs to be used in the band.</p>	<b>Sclerotinia Blight</b> ( <i>Sclerotinia minor</i> )	2.0	40 Minimum	<p>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.</p> <p>For best results apply using a preventative program.</p>	<p>A maximum of 3 applications or 6 lbs of product can be applied per season with the last application being at least 2.0 lbs per Acre.</p> <p>Do not apply within 10 days of harvest (PHI = 10 days).</p> <p>Do not feed peanut hay to livestock.</p> <p><b>*Not currently registered for use in California.</b></p>

## FRUIT TREE AND NUTS

## ALMONDS

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALLONS WATER PER ACRE		
<p>ROVRAL® should be used as an integral part of a complete disease control program.</p> <p>Apply as a foliar spray in sufficient water to obtain thorough coverage of blossoms, foliage, and/or fruit.</p>	<p><b>Brown Rot Blossom Blight</b> (<i>Monilinia laxa</i>)</p> <p><b>Shot Hole</b> (<i>Stigmina carpophila</i>)</p>	1.0	20 – 400 (ground)	<p>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.</p> <p><b>Spray Schedule Table</b></p> <p>Apply first at pink bud and, if conditions favorable for disease development persist or recur up to 3 subsequent applications can be made at:</p> <p>1) full bloom 2) petal fall 3) up to 5 weeks after petal fall.</p>	Do not make more than 4 applications per season.
<p><b>Tank Mix Program</b></p> <p>Apply as a tank mix with CAPTAN 50WP to broaden disease control.</p> <p>All applicable directions, restrictions, and precautions on the CAPTAN 50WP label are to be followed.</p>	<p><b>Brown Rot Blossom Blight</b> (<i>Monilinia laxa</i>)</p> <p><b>Shot Hole</b> (<i>Stigmina carpophila</i>)</p> <p><b>Almond Scab</b> (<i>Cladosporium carpophilum</i>)</p> <p><b>Anthracnose</b> (<i>Colletotrichum spp.</i>)</p>	<p>1.0 lbs/A Rovral</p> <p><b>PLUS</b></p> <p>4 – 6 lbs./A Captan 50WP</p>	20 – 300 (ground)		

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

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALLONS WATER PER ACRE		
<p>ROVRAL® should be used as an integral part of a complete disease control program.</p> <p>Apply as a foliar spray in sufficient water to obtain thorough coverage of blossoms and foliage.</p> <p>Under severe disease conditions, the higher rate and shorter spray interval is recommended.</p>	<p><b>Brown Rot Blossom Blight</b> (<i>Monilinia spp.</i>)</p> <p><b>Shot Hole</b> (<i>Stigmina carpophila</i>)</p> <p><b>Scab</b> (<i>Ventura carpophila</i>)</p>	1.0 - 2.0	20 - 400 (ground)	<p>Apply ROVRAL® when bud tissue is susceptible to disease development (i.e., pink, white or red bud). If conditions favorable for disease development persist or recur, apply at full bloom or at petal fall.</p> <p>The use of this product may be alternated with other registered fungicides as additional applications may be required during the bloom period.</p>	<p>Do not make more than 2 applications of this product per season.</p> <p>This product may not be applied after petal fall.</p>

**GINSENG\***

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

\* Not currently registered for use in California.

## SMALL FRUIT

### BERRIES

Caneberry: Blackberry; loganberry; red and black raspberry; cultivars and/or hybrids of these.  
 Bushberry\*: Currant; elderberry; gooseberry; huckleberry.

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
Apply as a foliar spray with ground equipment in sufficient water to obtain thorough coverage of blossoms and fruit.  Under severe disease conditions, the higher rate is recommended.	<b>Botrytis Fruit Rot</b> ( <i>Botrytis cinerea</i> )	1.0 - 2.0	100 Minimum	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 make more than 4 applications per season.  The final application can be made up to and including the day of harvest (PHI = 0 day).

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

### GRAPES

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
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 insure thorough coverage.  Under severe disease conditions, the higher rate is recommended.  This product must be used in conjunction with good cultural practices designed to minimize conditions conducive for Bunch Rot development.  <b>Thorough coverage of the bunches is essential.</b>	<b>Bunch Rot</b> ( <i>Botrytis cinerea</i> )	<b>Wine and Sherry Grapes:</b>	50 Minimum	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.  <b>Spray Schedule Table</b>  1) Early to mid-bloom 2) Prior to bunch closing 3) Beginning of fruit ripening (veraison) 4) Final application prior to harvest as needed.	Do not make more than 4 applications per season.  The final application may be made up to 7 days before harvest (PHI=7 days).
		<b>Table and Raisin Grapes:</b>	50 Minimum	Early to mid-bloom	Do not make more than one application per season.

## STRAWBERRIES

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	LBS. PER 100 Gallons		
<b>DIP</b> Dip the transplants in the solution for 5 minutes and plant immediately.	<b>Botrytis Crown Rot</b> <i>(Botrytis cinerea)</i>	--	2.0	Apply as a preplant dip immediately prior to planting.	Do not make more than 1 application.
<b>FOLIAR SPRAY</b> Apply as a foliar spray in not less than 100 gallons of water per acre. Thorough coverage is essential for disease control. Under severe disease conditions, the higher rate is recommended. <b>* ROVRAL® will suppress or give partial control of this disease.</b>	<b>Gray Mold</b> <i>(Botrytis cinerea)</i>  <b>Stem End Rot</b> <i>(Gnomonia comari)</i>  <b>Phomopsis Soft Rot</b> <i>(Phomopsis obscurans)</i>  <b>Purple Leaf Spot</b> <i>(Mycosphaerella spp.)</i>	1.5 - 2.0	--	Apply when conditions are favorable for disease development.	Do not make more than 1 application per season. Do not apply ROVRAL® after first fruiting flower.
<b>TANK MIX PROGRAM</b> Apply as a tank mix with another fungicide registered for control of Gray Mold on strawberries.  Do not combine with Ronilan.  <b>* ROVRAL® will suppress or give partial control of this disease.</b>	<b>Anthrachnose*</b> <i>(Colletotrichum spp.)</i>	1.0	--	Apply when conditions are favorable for disease development.	Do not make more than 1 application per season. Do not apply ROVRAL® after first fruiting flower.

## VEGETABLES

## BEANS (Snap, Dry, and Lima)

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
<p>Apply using ground equipment with a spray pressure of 50-100 PSI using a three nozzle/row boom arranged with one directly over the row and a drop on each side of the row.</p> <p>Under severe disease conditions the higher rate and shorter spray interval should be used.</p> <p><b>Thorough coverage is essential for disease control.</b></p>	<p><b>Gray Mold</b> (<i>Botrytis cinerea</i>)</p> <p><b>White Mold</b> (<i>Sclerotinia sclerotiorum</i>)</p>	1.5 to 2.0	40 Minimum (ground)	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.	<p>Two applications maximum per season, with the last application made no later than peak bloom.</p> <p>Do not allow foraging for 14 days after last application.</p> <p>Do not feed snap or succulent bean hay to livestock.</p> <p>Do not feed dry bean hay to livestock until 45 days after last application.</p> <p>Do not use this product on cowpeas.</p>

## BROCCOLI

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
<p>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.</p>	<p><b>Black Leg</b> (<i>Leptosphaeria maculans</i>)</p>	2.0	40 Minimum (ground)	Apply immediately after thinning (2 to 4 leaf stage) as a directed spray to the base of the plant and the adjacent soil surface. If disease conditions persist or recur, a second application may be made up to the day of harvest.	<p>Do not make more than 2 applications per crop.</p> <p>Do not drench.</p> <p>This product can be applied up to the day of harvest (PHI = 0 days).</p>

## CARROTS

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
Apply as a foliar spray in sufficient water to obtain thorough coverage. The higher rate and/or shorter spray interval should be used under severe disease conditions.	<b>Alternaria Blight</b> ( <i>Alternaria dauci</i> )  <b>Black Crown Rot</b> ( <i>Alternaria radicina</i> )	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.	Do not make more than 4 applications of this product per season. This product can be applied up to the day of harvest (PHI = 0 days).
<b>Tank Mix Program</b> Apply as a tank mix with another fungicide registered for control of <i>Alternaria</i> on carrots.	<b>Alternaria Blight</b> ( <i>Alternaria dauci</i> )  <b>Black Crown Rot</b> ( <i>Alternaria radicina</i> )	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.	Do not make more than 10 applications per season. This product can be applied up to the day of harvest (PHI = 0 days).

## CHINESE MUSTARD (For Use In Florida Only)

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
Apply as a foliar spray in sufficient water to obtain thorough coverage.	<b>Alternaria Leaf Spot</b> ( <i>Alternaria spp.</i> )	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.	Do not make more than 4 applications of this product per season. Do not apply within 10 days of harvest. (PHI = 10 days).

## DRY BULB ONIONS

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
Apply using a ground boom sprayer with either a single or multiple nozzles per row adjusted to provide complete coverage of each row.	<b>Botrytis Leaf Blight</b> ( <i>Botrytis squamosa</i> ) <b>Purple Blotch</b> ( <i>Alternaria porri</i> ) <b>Botrytis Neck Rot</b> ( <i>Botrytis alli</i> ) <b>Stemphylium Blight</b> ( <i>Stemphylium vesicarium</i> )	1.5	50 Minimum	Apply as a foliar spray as soon as conditions become favorable for disease development. Continue application on a 14 day interval as long as conditions favor disease development.	Do not make more than 5 applications per season. Do not apply within 7 days of harvest (PHI = 7 days).
<b>Tank Mix Program</b> Apply as a tank mix with another fungicide registered for the control of Botrytis Leaf Blight, Botrytis Neck Rot or Purple Blotch (as described above for ground application).	<b>Botrytis Leaf Blight</b> ( <i>Botrytis squamosa</i> ) <b>Purple Blotch</b> ( <i>Alternaria porri</i> ) <b>Botrytis Neck Rot</b> ( <i>Botrytis alli</i> ) <b>Stemphylium Blight</b> ( <i>Stemphylium vesicarium</i> )	1.0	50 Minimum	Apply as a foliar spray as soon as conditions become favorable for disease. Continue applications on a 7 to 10 day interval as long as conditions favor disease development.	Do not make more than 10 applications per season. Do not apply within 7 days of harvest (PHI = 7 days).

## GARLIC

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
Apply as an in-furrow spray in sufficient water to obtain thorough coverage of the open furrow and covering soil.	<b>White Rot</b> ( <i>Sclerotium cepivorum</i> )	4.0*	20 Minimum	Apply in the furrow at planting.	Do not make more than 1 application per year.

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

## LETTUCE (head &amp; leaf types)

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
<p>Apply as a foliar spray in sufficient water to obtain thorough coverage.</p> <p>Applications 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.</p> <p>Under severe disease conditions the higher rates should be used.</p> <p>* When applying in a band do not reduce the acre rate.</p>	<p><b>Lettuce Drop</b> (<i>Sclerotinia spp.</i>)</p> <p><b>Bottom Rot</b> (<i>Rhizoctonia solani</i>)</p>	1.5 - 2.0*	40 Minimum	Apply from the 3 leaf stage 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.	<p>Do Not make more than 3 applications to each crop.</p> <p>Do Not apply within 14 days of harvest (PHI=14 days).</p> <p>Do Not cultivate after application. If necessary, make an application during or immediately after cultivation.</p> <p>Do not drench.</p>

## POTATOES

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		LBS. PER ACRE	GALS. WATER PER ACRE		
<p>Apply with a boom sprayer with a single or multiple nozzles adjusted to provide thorough coverage of the foliage particularly the older leaves.</p> <p>Under severe disease conditions the higher rate should be used for Early Blight.</p>	<p><b>Early Blight</b> (<i>Alternaria solani</i>)</p>	1.0 - 2.0	10 Minimum	<p>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.</p>	<p>A maximum of 4 total applications can be made per season.</p> <p>Do not apply within 14 days of harvest. (PHI = 14 days).</p> <p>Do not irrigate for 24 hours after application.</p>
<p>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.</p> <p>Thorough coverage is essential for control</p>	<p><b>White Mold</b> (<i>Sclerotinia sclerotiorum</i>)</p>	2.0	10 Minimum	<p>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.</p>	

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### IMPORTANT: READ BEFORE USE

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