

PH 21 264-532

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 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registrative Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460</p> <p><b>NOTICE OF PESTICIDE:</b> <u>  X  </u> Registration <u>     </u> Reregistration</p> <p><small>(under FIFRA as amended)</small></p>	<p>EPA Reg. Number: <b>264-532</b></p>	<p>Date of Issuance: <b>JUN 14 1993</b></p>
	<p>Term of Issuance: <b>Conditional</b></p>	
<p>Name of Pesticide Product: <b>Rovral 50 SP</b></p>		
<p>Name and Address of Registrant (include ZIP Code): <b>Rhone-Poulenc Ag Company P.O. Box 12014, 2 T. W. Alexander Drive Research Triangle Park, NC 27709</b></p>		
<p><b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p><b>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</b></p> <ol style="list-style-type: none"> <li>1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</li> <li>2. Revise the label adding the phrase "EPA Registration No. 264-532".</li> <li>3. Submit five copies of the final printed label for the record.</li> <li>4. Note that this acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS, H7505C:J.Fairfax:100-749:6/11/93</li> </ol>		
<p>Signature of Approving Official: </p>	<p>Date: <b>JUN 14 1993</b></p>	

you are required to submit, and receive the Agency's approval by April 21, 1994, of a revised label reflecting the required label statements of 40 CFR 156, published in the **FEDERAL REGISTER** on August 21, 1992 (57 FR 38102). Further guidance will be issued. According to 40 CFR 156, subpart K, specifically §156.200(c)(3): "No product to which this subpart applies shall be distributed or sold without amended labeling by any registrant after April 21, 1994."

5. A one year storage stability test at ambient warehouse conditions should be conducted on this product packaged in a PVA water soluble bag. The data need not be submitted to EPA unless they meet one of the criteria listed in paragraph II of PR Notice 92-5.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

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# ROVRAL® 50 SP Fungicide

<b>ACTIVE INGREDIENT:</b>	
Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide.....	50.0%
<b>INERT INGREDIENTS:</b> .....	50.0%
<b>EPA Reg. No. 264-XXX</b>	<b>EPA Est. No.:</b>

## KEEP OUT OF REACH OF CHILDREN CAUTION

For **PRODUCT USE** Information Call 1-800-334-9745

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

### STATEMENT OF PRACTICAL TREATMENT

**IN CASE OF CONTACT:** Wash skin with soap and water.  
**IF IN EYES:** Flush with water for 15 minutes and get medical attention.

### PRECAUTIONARY STATEMENTS

#### CAUTION HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapor or spray mist, or contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Get medical attention if irritation persists. Remove contaminated clothing and wash before reuse.

#### PRECAUTIONS FOR PRE PLANT DIP APPLICATIONS

When applying ROVRAL® 50 SP as a strawberry preplant dip, wear a long sleeve shirt, chemical resistant gloves and goggles or a face shield.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater. Drift or run-off from treated areas are hazardous to aquatic invertebrates in neighboring areas.

### 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.

#### REENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers and given in a language customarily understood by the workers. Oral and written warnings must include the STATEMENT OF PRACTICAL TREATMENT and REENTRY STATEMENTS as they appear on the label.

### STORAGE AND DISPOSAL

**STORAGE** Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place above 32° F. Do not store this product under wet conditions. Handle outer bag carefully when stored at temperatures less than 50° F to avoid breakage of inner, soluble bag.

**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** Do not reuse outer bag. Dispose of outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, burning. If burned, stay out of the smoke.

with **COMMENTS**  
in EPA Letter Dated:

JUN 14 1993

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

264-532

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## GENERAL CAUTIONS AND RESTRICTIONS

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

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

The following crops may be rotated 1 month following the last Iprodione application: Root crops, Tomatoes, and Cotton.

### 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.

## FUNGICIDE RESISTANCE STATEMENT

ROVRAL® 50 SP Fungicide is a dicarboximide fungicide. Resistance developed to other dicarboximide, such as Ronilan® may result in resistance to ROVRAL® 50 SP. Therefore, DO NOT EXTEND THE TOTAL NUMBER OF APPLICATIONS PER CROP ON THIS LABEL WITH Ronilan®.

## HOW TO USE ROVRAL® 50 SP FUNGICIDE

Partially fill the spray tank with clean water and start agitation. Open the plastic outer bag and drop the water soluble bag or bags into the tank. Agitate to ensure thorough mixing for a minimum of two minutes or until bags and product are completely dispersed then fill the tank with water. Maintain agitation during application and apply with properly calibrated application equipment. Do not allow the 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® 50 SP should be added to the tank prior to the addition of any adjuvant. Consult the adjuvant label or manufacturer for crop tolerance and safety information when used with ROVRAL® 50 SP.

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## ROVRAL® 50 SP FUNGICIDE IS REGISTERED FOR USE ON THE FOLLOWING:

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### Field and Row Crops

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- Peanuts
- Rice

### Fruit Trees and Nuts

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- Almonds
- Stone Fruits
  - Apricots
  - Cherries
  - Nectarines
  - Peaches
  - Plums
  - Prunes

### Ginseng

### Small Fruit

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- Caneberries
- Grapes
- Strawberries

### Vegetables

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

**FIELD AND ROW CROPS**

**PEANUTS**

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets 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> <p>Applications may also be made by chemigation.</p> <p>Minimum of 40 gallons per acre.</p>	<p><b>Scierotinia Blight</b> (<i>Sclerotinia minor</i>)</p>	2.0	2.0	<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>Do not apply within 10 days of harvest. (PHI = 10 days).</p> <p>A maximum of 3 applications can be made per season.</p> <p>Do not apply by air.</p>

**RICE**

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
<p>Apply as a broadcast spray using aerial equipment.</p> <p>Minimum of 10 gallons per acre.</p>	<p><b>Sheath blight</b> (<i>Rhizoctonia solani</i>)</p> <p><b>Brown Spot</b> (<i>Helminthosporium oryzae</i>)</p> <p><b>Sheath Spot</b> (<i>Rhizoctonia oryzae</i>)</p> <p><b>*Narrow Brown Leaf spot</b> (<i>Cercospora oryzae</i>)</p>	1.0	1.0	<p>The first foliar application should be made between joint movement and booting. If favorable disease conditions continue a second application can be applied 2 weeks after the first application, but no later than 75% heading.</p>	<p>Maximum of 2 applications can be made per season.</p> <p><b>Not registered for use in California.</b></p> <p>*ROVHAL® 50 SP will suppress or give partial control of this disease.</p>

Do not apply in areas where catfish and crayfish are commercially cultivated.

**ENDANGERED SPECIES RESTRICTIONS IN THE STATE OF ARKANSAS**

The use of Iprodione on rice is restricted to protect the endangered fat pocketbook pearly mussel (*Potamilus capax*) and its habitat. Use is prohibited in the following areas of Arkansas.

**Mississippi County:** Within the basin that drains directly into the Right Hand Chute of Little River, south of Elk Lake National Wildlife Refuge.

**Poinsett County:** Between Crowleys's Ridge and the levee east of the Right Hand Chute of Little River and the St. Francis Floodway. Use is also prohibited west of Rt. 140 and north of Rt. 63 at the SIPHON near Marked Tree. Except that the prohibited area does not include the area bounded by Arkansas Highway 373 on the west, Highway 63 on the east and Highway 14 on the south.

**Cross, St. Francis, and Lee Counties:** Between Crowley's Ridge and the levee east of the Right Hand Chute of Little River and the St. Francis Floodway as far south as the confluence of L'Anguille River (Lee County).

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**FRUIT TREE AND NUTS**

**ALMONDS**

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE*	ROVRAL® 50 SP Packets per Acre		
<p>Apply as a foliar spray in sufficient water to obtain thorough coverage of bloom, foliage, and/or fruit (20 to 400 gallons per acre by ground equipment and in a minimum of 15 gals. per acre by air).</p> <p>The use of aerial application after petal fall may result in reduced control due to lack of canopy penetration and coverage.</p>	<p><b>Brown Rot Blossom Blight</b> (<i>Monilinia laxa</i>)</p> <p><b>Shothole</b> (<i>Stigmina carpophila</i>)</p>	1.0	1.0	<p>Apply first at pink bud and, if conditions favorable for disease development persist or reoccur up to 3 subsequent applications can be made at:</p> <ol style="list-style-type: none"> <li>1) full bloom</li> <li>2) petal fall</li> <li>3) up to 5 weeks after petal fall.</li> </ol>	Do not make more than 4 applications per season.

\*The rate of ROVRAL® 50 SP is based on a standard of 400 gallons per acre dilute spray for mature trees.

**STONE FRUITS**

Apricots, Cherries, Nectarines, Peaches, Plums, and Prunes

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE*	ROVRAL® 50 SP Packets per Acre		
<p>Apply as a foliar spray in sufficient water to obtain thorough coverage of bloom, foliage, and/or fruit (20 to 400 gallons per acre by ground equipment and in a minimum of 15 gals. per acre by air).</p> <p>The use of aerial application after petal fall may result in reduced control due to lack of canopy penetration and coverage.</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	1.0 - 2.0	<p>Apply ROVRAL® when bud tissue is susceptible to disease. (i.e. Redbud - apricots and plums. Early popcorn - peaches, nectarines, cherries and prunes. If conditions favorable for disease development persist or reoccur apply again at full bloom and at petal fall.</p>	<p>Do not make more than 5 applications of this product per season.</p> <p>Preharvest applications may be made up to and including the day of harvest (PHI=0 day).</p> <p>Under severe disease conditions, the higher rate and shorter spray interval is recommended.</p>
	<p><b>Fruit Brown Rot</b> (<i>Monilinia spp.</i>)</p>	1.0 - 2.0	1.0 - 2.0	<p>An application should be made whenever temperatures and moisture conditions favor disease infection in the 5-week period prior to harvest. If these conditions persist or reoccur, additional applications should be made. Applications can be made on a 7-14 day interval following the first preharvest application if needed.</p>	
	<p><b>Cherry Leaf Spot</b> (<i>Coccomyces hiemalis</i>)</p>	1.0 - 2.0	1.0 - 2.0	<p>Follow the Brown Rot Blossom Blight and Fruit Rot spray program. At least one foliar spray should be made between petal fall and shuck split, with an additional foliar spray applied 14 days after harvest.</p>	

\*The rate of ROVRAL® 50 SP is based on a standard of 400 gallons per acre dilute spray for mature trees.

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**GINSENG**

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
<p>Apply as a foliar spray in sufficient water to obtain thorough coverage using ground equipment.</p> <p>ROVRAL® 50 SP should be used as part of a complete spray program.</p> <p><b>Alternating Program:</b> Use as an alternating treatment on a 14 day interval with another fungicide registered for control of Alternaria Blight.</p> <p><b>Tank Mix Program:</b> Apply at the reduced rate on a 7 day interval when combined in a tank mix with another fungicide registered for control of Alternaria Blight.. Minimum 10 gallons per acre.</p>	<p><b>Alternaria Blight</b> (<i>Alternaria panax</i>)</p>	1.5 - 2.0	2.0	<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 or on a 7 day interval if using the tank mix program.</p>	<p>Do not apply within 36 days of harvest (PHI = 36 days).</p> <p>Do not apply more than 10 pounds of product per season.</p>
		1.0 - 1.5	1.0		

**SMALL FRUIT**

**CANEBERRIES**

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
<p>Apply as a foliar spray with ground equipment in sufficient water to obtain thorough coverage at bloom and/or fruit.</p> <p>Minimum 100 gallons per acre.</p>	<p><b>Botrytis Fruit Rot</b> (<i>Botrytis cinerea</i>)</p>	1.0 - 2.0	1.0 - 2.0	<p>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.</p>	<p>The final application can be made up to and including the day of harvest. (PHI = 0 day).</p> <p>Do not make more than 4 applications per season.</p> <p>Under severe disease conditions, the higher rate is recommended.</p>

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### GRAPES

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
<p>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 bunch coverage.</p> <p><b>Thorough Coverage of the Bunches is Essential.</b></p> <p>Minimum of 50 gallons per acre.</p>	<p><b>Bunch Rot</b> (<i>Botrytis spp.</i>)</p>	1.0-2.0	1.0-2.0	<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</b></p> <p>1) Early mid-bloom</p>	<p>The final application may be made up to and including the day of harvest. (PHI=0 day). Under severe disease conditions, the higher rate is recommended.</p> <p>This product must be used in conjunction with good cultural practices designed to minimize conditions conducive for Bunch Rot development.</p>
		1.5-2.0	2.0	2) Prior to bunch closing	
		1.5-2.0	2.0	3) Beginning of fruit ripening (veraison)	
		1.5-2.0	2.0	4) Final application prior to harvest as needed.	

### STRAWBERRIES (Preplant Dip)

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per 100 Gal.		
<p>Dip the transplants in the solution for 5 minutes and plant immediately.</p>	<p><b>Botrytis crown Rot</b> (<i>Botrytis spp.</i>)</p>	--	2.0	<p>Apply as a preplant dip immediately prior to planting.</p>	<p>For pre plant and dip use see Precautionary Statement.</p>

### STRAWBERRIES (Foliar Spray)

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
<p>Apply as a foliar spray in not less than 100 gallons of water per acre. Applications can be made by aerial methods at a minimum of 10 gallons per acre. Thorough coverage is essential for disease control. The highest rate and/or shortest spray interval should be used under severe disease conditions.</p>	<p><b>Gray Mold</b> (<i>Botrytis cinerea</i>)</p> <p><b>Stem End Rot</b> (<i>Gnomonia comari</i>)</p> <p><b>Phomopsis Soft Rot</b> (<i>Phomopsis obscurans</i>)</p> <p><b>Purple Leaf Spot</b> (<i>Mycosphaerella spp.</i>)</p> <p><b>Anthracnose*</b> (<i>Colletotrichum spp.</i>)</p>	1.5 - 2.0	2.0	<p>Make the first application no later than 10% bloom. Additional sprays may be made on a 10-14 day interval.</p>	<p>ROVRAL® 50 SP may be applied up to and including the day of harvest. (PHI = 0 day-). Do not make more than 4 applications per season. Under severe disease conditions, the higher rate and shorter spray interval is recommended.</p> <p>*ROVRAL® 50 SP will suppress or give partial control of this disease.</p>

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# VEGETABLES

## BEANS (Snap, Dry, and Lima)

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets 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>Application can also be made by air or chemigation.</p> <p>Though coverage is essential for disease control.</p> <p>Minimum of 40 gallons per acre by ground or 10 gallons per acre by air.</p>	<p>Gray Mold (<i>Botrytis spp.</i>)</p> <p>White Mold (<i>Sclerotinia spp.</i>)</p>	1.5 to 2.0	2.0	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>Do not allow foraging for 14 days after last application.</p> <p>Do not feed snap bean hay to livestock.</p> <p>Do not feed dry bean hay to livestock until 45 days after last application.</p> <p>Do not feed succulent bean hay to livestock.</p> <p>Two applications maximum per season, with the last application made no later than full bloom.</p> <p>Under severe disease conditions the higher rate and shorter spray interval should be used.</p>

## BROCCOLI

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
<p>Application should be made 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>Application may be made by chemigation.</p> <p>Minimum of 40 gallons per acre.</p>	<p>Blackleg (<i>Phoma lingam</i>)</p>	2.0	2.0	Apply immediately after thinning (2 to 4 leaf state) as a directed spray to the base of the plant and the adjacent soil surface. If disease conditions persist or reoccur, a second application may be made up to the day of harvest.	<p>This product can be applied up to the day of harvest (PHI = 0 days).</p> <p>Do not drench.</p>

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## CARROTS

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
Apply as a foliar spray in sufficient water to obtain thorough coverage. May be applied by ground, chemigation, or aerial equipment. Minimum of 10 gallons per acre.	<p><b>Alternaria Blight</b> (<i>Alternaria dauci</i>)</p> <p><b>Black Crown Rot</b> (<i>Alternaria radicina</i>)</p>	1.0 - 2.0	1.0 - 2.0	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). The higher rate and/or shorter spray interval should be used under severe disease conditions.

## CHINESE MUSTARD (For Use In Florida Only)

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
Apply as a foliar spray in sufficient water to obtain thorough coverage. Minimum of 50 gallons per acre.	<b>Alternaria Leafspot</b> ( <i>Alternaria spp.</i> )	1.0	1.0	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
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Two Acres*		
Apply using ground, air, or chemigation equipment. Use a boom sprayer with either a single or multiple nozzles per row adjusted to provide complete coverage of each row. Minimum of 50 gallons per acre by ground or 10 gallons per acre by air.	<p><b>Botrytis Leaf Blight</b> (<i>Botrytis squamosa</i>)</p> <p><b>Purple Blotch</b> (<i>Alternaria porri</i>)</p> <p><b>Botrytis Neck Rot</b> (<i>Botrytis alli</i>)</p>	1.5	3.0*	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 apply more than 5 applications per season.	Do Not apply within 7 days of harvest. (PHI = 7 days). Under severe disease conditions use the higher rate.
<b>Tank Mix</b> Apply at the reduced rate when combined in a tank mix with another fungicide registered for the control of Botrytis Leaf Blight, Botrytis Neck Rot or Purple Blotch as described for ground application. Minimum of 50 gallons per acre by ground or 10 gallons per acre by air.		Tank Mix 1.0 - 1.5	2.0 - 3.0*	<b>Tank Mix</b> Apply as a foliar spray as soon as conditions become favorable for disease. Continue applications on a 7 day interval as long as conditions favor disease development.	

\*NOTE: the number of packets are for two acres.

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**GARLIC**

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
Apply as an in-furrow spray in sufficient water to obtain thorough coverage of the open furrow and covering soil. Minimum of 20 gallons per acre.	White Rot ( <i>Sclerotium cepivorum</i> )	4.0*	4.0	Apply in the furrow at planting.	*This rate is based on pounds product/treated acre and represents the rate for a 38-40 inch bed spacing.

**LETTUCE (head & leaf types)**

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets per Acre		
Apply as a foliar spray in sufficient water to obtain thorough coverage. 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. * When applying in a band do not reduce the acre rate. Applications may also be made by chemigation. Minimum of 40 gallons per acre.	Lettuce Drop ( <i>Sclerotinia spp.</i> )  Bottom Rot ( <i>Rhizoctonia solani</i> )	1.5 - 2.0*	2.0	Apply at 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.	Under severe disease conditions the higher rates should be used. Do Not make more than three applications to each crop. Do Not apply within 14 days of harvest (PHI=14 days). Do Not cultivate after application. If necessary make a application during or immediately after cultivation. Do Not drench.

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## POTATOES

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		POUNDS PER ACRE	ROVRAL® 50 SP Packets 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>Application can also be made by chemigation or by air.</p> <p>Thorough coverage of the foliage is essential for control.</p>	<p><b>Early Blight</b> (<i>Alternaria solani</i>)</p>	1.0 - 2.0	1.0 - 2.0	<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>Under severe disease conditions the higher rate should be used for Early Blight.</p> <p>When applying through irrigation deliver between 0.1 to 0.3 inches of water per acre. Do not irrigate for 24 hours after application.</p>
<p>Apply with a boom sprayer with 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.</p> <p>Do not apply by air, except in California. Minimum of 10 gallons per acre.</p>	<p><b>White Mold</b> (<i>Sclerotinia spp.</i>)</p>	2.0	2.0	<p>Apply just prior to row closing, or at early first sign of disease, and repeat on a 14-28 day interval, if favorable conditions for disease development continues.</p>	<p>Do not apply by air for White Mold control except in California.</p>

### 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® 50 SP 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® 50 SP Fungicide, and then the remaining volume of water. (Suspension concentrations using the appropriate dosage per acre recommended on this label of ROVRAL® 50 SP Fungicide per 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 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of ROVRAL® 50 SP Fungicide into the irrigation water line so as to deliver the desired rate per acre. The suspension of ROVRAL® 50 SP Fungicide should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or U.I.W. experts.

**NOTE:** When treatment with ROVRAL® 50 SP 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.

### 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 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 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

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pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

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.

### **LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warning and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, or toxicity to laboratory animals and to plants, and of residues on food crops and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OF CROP OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

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#### **NOTICE TO BUYER**

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside of the United States.

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HOVRAL® 50 SP Fungicide (PENDING) Submitted 4/5/93.