

PM 21 264-482

10415

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input checked="" type="checkbox"/>	Amendment
<input type="checkbox"/>	Other

OPP Identifier Number
224940

Application for Pesticide - Section I

1. Company/Product Number 264-482	2. EPA Product Manager Connie Welch	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ROVRAL brand 4 Flowable Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Rhone-Poulenc Ag Company P.O. Box 12014 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: EPA Reg. No. _____ 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 per PR Notice 95-2:
- modified product name to Rovral brand 4 Flowable Fungicide
- Deleted a statement from the Storage and Disposal section

NOTIFICATION
MAY 23 1996

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input 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 Danielle A. Larochelle	Title Registration Manager	Telephone No. (include Area Code) 919/549-2718
Certification 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>Danielle A. Larochelle</i>	3. Title Registration Manager	
4. Typed Name Danielle A. Larochelle	5. Date May 7, 1996	

2015

ROVRAL® brand 4 Flowable Fungicide

ACTIVE INGREDIENT:
 Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide*41.6%
INERT INGREDIENTS:58.4%
 *Equivalent to 4 Lbs. Iprodione per gallon.

EPA Reg. No. 264-482 EPA Est. No.: 1812-GA-3

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. Get medical attention if irritation persists.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear.

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

- Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
 - Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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

Do not apply this product in a way that will contact workers or other persons, either directly or 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 12 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, waterproof gloves, shoes plus socks, and protective eyewear.

STORAGE AND DISPOSAL

STORAGE

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

Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

RETURNABLE -- REFILLABLE CONTAINERS

After use, return the container to the point of purchase or designated locations. This container must only be refilled with ROVRAL® brand 4 Flowable Fungicide. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. 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 CAUTIONS AND RESTRICTIONS

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.

FUNGICIDE RESISTANCE STATEMENT

ROVRAL® brand 4 Flowable 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.

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, 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® 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®.

HOW TO APPLY ROVRAL® brand 4 FLOWABLE FUNGICIDE TO COTTON

Use sprayer equipment calibrated to deliver the registered dose rate of ROVRAL® brand 4 Flowable Fungicide. Spray nozzles should be configured on the planter to apply ROVRAL® brand 4 Flowable Fungicide 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.

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

Field and Row Crops

- Cotton
- Peanuts
- Rice

Fruit Trees and Nuts

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

Ginseng

Small Fruit

- Caneberries
- Grapes
- Strawberries

Vegetables

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

FIELD AND ROW CROPS

COTTON

HOW TO USE	DISEASES	DOSAGE RATE		
		FL. OUNCES PER 1000 FEET OF ROW	TOTAL FL. OUNCES PER ROW SPACING PER ACRE	GALS. WATER PER ACRE
<p>Apply at-planting using planter mounted spray nozzles which delivers the spray solution to the open seed furrow. Direct spray in-furrow immediately behind the seed drop tube and before the furrow closure devices.</p> <p>Apply the higher rate of ROVRAL® brand 4 Flowable Fungicide if a field has a history of high seedling disease pressure or if weather conditions favor seedling disease development (e.g. cool and wet).</p>	<p>Damping-off, "Sore Shin" (<i>Rhizoctonia solani</i>)</p>	0.25 - 0.5	40"=3.2 - 6.5 38"=3.4 - 6.9 36"=3.6 - 7.3 30"=4.4 - 8.7	5 Minimum

Do not allow grazing or feeding of cotton forage to livestock.

PEANUTS*

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		PINTS 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 pint per acre rate needs to be used in the band.</p> <p>Applications may also be made by chemigation.</p>	<p>Sclerotinia Blight (<i>Sclerotinia minor</i>)</p>	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 can be made per season.</p> <p>Do not apply within 10 days of harvest. (PHI = 10 days).</p> <p>Do not apply by air.</p> <p>Do not feed peanut hay to livestock.</p> <p>* Not currently registered for use in California.</p>

RICE*

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		PINTS PER ACRE	GALS. WATER PER ACRE		
Apply as a broadcast spray using aerial equipment.	Sheath blight (<i>Rhizoctonia solani</i>)	1.0	10 Minimum	The first foliar application should be made between joint movement and booting. If favorable disease conditions continue a second application can be applied 14 days after the first application, but no later than 75% heading.	Maximum of 2 applications can be made per season.
	Brown Spot (<i>Bipolaris oryzae</i>)				
* ROVRAL® brand 4 Flowable Fungicide will suppress or give partial control of this disease.	Sheath Spot (<i>Rhizoctonia oryzae</i>)	1.0	10 Minimum	The first foliar application should be made between joint movement and booting. If favorable disease conditions continue a second application can be applied 14 days after the first application, but no later than 75% heading.	* Not registered for use in California.
	*Narrow Brown Leaf spot (<i>Cercospora oryzae</i>)				

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 Big Lake National Wildlife Refuge.

Poinsett County: Between Crowley'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).

FRUIT TREE AND NUTS

ALMONDS

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		PINTS PER ACRE	PINTS PER 100 GAL.		
<p>ROVRAL® brand 4 Flowable Fungicide 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 (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>Brown Rot Blossom Blight (<i>Monilinia laxa</i>)</p> <p>Shot Hole (<i>Stigmina carpophila</i>)</p>	1.0	0.25	<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>Spray Schedule Table 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"> 1) full bloom 2) petal fall 3) up to 5 weeks after petal fall. 	Do not make more than 4 applications per season.

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

STONE FRUIT.
Apricots, Cherries, Nectarines, Peaches, Plums, and Prunes

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		PINTS PER ACRE	PINTS PER 100 GAL.		
<p>ROVRAL® brand 4 Flowable Fungicide 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 (20 to 400 gallons per acre by ground equipment and in a minimum of 15 gals. per acre by air).*</p> <p>Under severe disease conditions, the higher rate and shorter spray interval is recommended.</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>Brown Rot Blossom Blight (<i>Monilinia spp.</i>)</p>	1.0 - 2.0	0.25 - 0.5	<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 4 applications of this product per season.</p> <p>Preharvest applications may be made up to 7 days before harvest (PHI=7 days).</p>
	<p>Fruit Brown Rot (<i>Monilinia spp.</i>)</p>	1.0 - 2.0	0.25 - 0.5	<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>Shot Hole (<i>Stigmia carpophila</i>)</p> <p>Scab (<i>Ventura carpophila</i>)</p>	1.0 - 2.0	0.25 - 0.5	<p>At least one of the blossom sprays should be applied at shuck-split. If only one blossom spray is applied, a second foliar spray may be made 14 days after the shuck-split application, followed by 2-3 preharvest sprays starting 5 weeks before harvest on a 7-14 day interval.</p> <p>Mid-season cover sprays with another registered fungicide should not be eliminated.</p>	
	<p>Cherry Leaf Spot (<i>Blumeriella jaapii</i>)</p>	1.0 - 2.0	0.25 - 0.5	<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® is based on a standard of 400 gallons per acre dilute spray for mature trees.

GINSENG*

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		PINTS PER ACRE	GALS. WATER PER ACRE		
<p>ROYRAL® brand 4 Flowable Fungicide 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>Alternating Program: Use as an alternating treatment on a 14 day interval with another fungicide registered for control of Alternaria Blight.</p>	<p>Alternaria Blight (<i>Alternaria panax</i>)</p>	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>Tank Mix Program: Apply at the reduced rate when combined in a tank mix with another fungicide registered for control of Alternaria Blight.</p>	<p>Alternaria Blight (<i>Alternaria panax</i>)</p>	1.0 - 1.5	10 Minimum	<p>Make the first application when conditions become favorable for disease development. Continue on a 7 to 14 day interval.</p>	<p>Do not make more than 10 applications per season.</p> <p>Do not apply within 36 days of harvest (PHI = 36 days).</p> <p>* Not currently registered for use in California.</p>

SMALL FRUIT

CANEBERRIES

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		PINTS PER ACRE	GALS. WATER PER ACRE		
<p>Apply as a foliar spray with ground equipment in sufficient water to obtain thorough coverage of blossoms and fruit.</p> <p>Under severe disease conditions, the higher rate is recommended.</p>	<p>Botrytis Fruit Rot (<i>Botrytis cinerea</i>)</p>	1.0 - 2.0	100 Minimum	<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>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 days).</p>

DRY BULB ONIONS

HOW TO USE	DISEASE	DOSAGE RATE		WHEN TO APPLY	USE RESTRICTIONS
		PINTS PER ACRE	GALS. WATER PER ACRE		
<p>Apply using ground, air, or chemigation equipment.</p> <p>For ground applications, use a boom sprayer with either a single or multiple nozzles per row adjusted to provide complete coverage of each row.</p>	<p>Botrytis Leaf Blight (<i>Botrytis squamosa</i>)</p> <p>Purple Blotch (<i>Alternaria porri</i>)</p> <p>Botrytis Neck Rot (<i>Botrytis allii</i>)</p>	1.5	<p>10 Minimum (aerial)</p> <p>50 Minimum (ground)</p>	<p>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.</p>	<p>Do not make more than 5 applications per season. Do Not apply within 7 days of harvest. (PHI = 7 days).</p>
<p>Tank Mix Program</p> <p>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.</p> <p>Do not combine with Ronilan.</p>	<p>Botrytis Leaf Blight (<i>Botrytis squamosa</i>)</p> <p>Purple Blotch (<i>Alternaria porri</i>)</p> <p>Botrytis Neck Rot (<i>Botrytis allii</i>)</p>	1.0	<p>10 Minimum (aerial)</p> <p>50 Minimum (ground)</p>	<p>Apply as a foliar spray as soon as conditions become favorable for disease. Continue applications on a 7 to 14 day interval as long as conditions favor disease development.</p>	<p>Do not make more than 10 applications per season. Do Not apply within 7 days of harvest. (PHI = 7 days).</p>

GARLIC

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

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

