

2023-2441
2024-03-06

GROUP	2	FUNGICIDE
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ROVRAL® WDG
FUNGICIDE
WATER DISPERSIBLE GRANULE
ACTIVE INGREDIENT: IPRADIONE 500 g/kg

FOR USE ON LETTUCE (greenhouse), CONIFER SEEDLINGS, AND ORNAMENTALS

COMMERCIAL

REGISTRATION NO. 24709
PEST CONTROL PRODUCTS ACT

CAUTION

POISON

WARNING: EYE IRRITANT

READ THE LABEL AND ACCOMPANYING BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

NET CONTENTS 1 KG

IN CASE OF EMERGENCY, CALL 1-800-331-3148 (24 HOURS)

Label

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

WARNING: EYE IRRITANT. Do not get in eyes. Use protective clothing including sleeved shirts or coveralls when handling or spraying Rovral®.

Avoid skin contact. Wear rubber gloves and goggles or face shield during the handling of Rovral® in all exposure situations. **DO NOT** contaminate domestic or irrigation waters. **DO NOT** inhale this product or spray. This product causes eye irritation. Thoroughly clean application equipment after use. **DO NOT** store in contact with foodstuffs. Wash hands and exposed skin before eating, drinking or smoking. Harmful if swallowed - get medical attention in case of accident. Store out of reach of children. Do not re-use empty container.

Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

During mixing, loading, application, clean-up and repair, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides.

When applying using open airblast equipment or for overhead spray, also wear chemical resistant headgear. Chemical resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval REI(s) specified in the following table.

REIs for Iprodione

Crop	Re-entry Activity	Restricted-entry Interval
Greenhouse lettuce	All tasks	12 hours
Conifer seedlings (greenhouse)	All tasks	1 day
Conifer seedlings (outdoors)	All tasks	12 hours
Soil drench ornamentals (control of damping-off caused by <i>Rhizoctonia</i>) (potted ornamentals and cut flowers) (greenhouse and outdoors)	All tasks	12 hours
Ornamental foliar use (control of <i>Botrytis</i> spp.) (non-cut flowers) (greenhouse and outdoors)	All tasks (except handline irrigation)	12 hours
	Handline irrigation	18 days

Do not apply using handheld mist blowers and handheld fogging equipment. DO NOT apply using aerial application equipment.

FIRST AID:

If on skin or clothing take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If in eyes hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If ingested call a poison control centre or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

No specific antidote. Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

Treated seed is toxic to birds and small wild mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE. TOXIC to birds.

TOXIC to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the early morning or the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinator during Pesticide Spraying – Best Management Practices" on the Health Canada website (<https://www.canada.ca/en/health-canada/services/consumer-product-safety/pesticides-pestmanagement/growers-commercial-users/pollinator-protection.html>).

To reduce runoff from treated areas into aquatic habitats avoid application to areas with moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

Toxic to certain beneficial insects. May harm certain beneficial insects, including those used in greenhouse production.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

DISPOSAL:

1. Empty bag.
2. Follow provincial/territorial instructions for any required additional cleaning of the bag prior to its disposal.
3. Make the empty bag unsuitable for further use.
4. Dispose of the bag in accordance with provincial/territorial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

Rovral® and FMC are trademarks of FMC Corporation or an affiliate.

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DIRECTIONS FOR USE:

For application through field or orchard sprayers, put one half the required water volume in the tank, stir in Rovral® and add the remainder of the water. For use through knapsack or small sprayers, first stir the required amount of Rovral® with water in a bucket, add this suspension to the partly filled spray tank, then add the remainder of the water.

Ensure mixing is complete and agitate thoroughly before each application and continue to agitate during spraying.

A prepared spray mixture should be used as soon as possible in the same day, especially if the water used for mixing is alkaline (greater than pH of 7).

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

Product Specific Precautions:

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-833-362-7722 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 45 litres per hectare.

GENERAL DIRECTIONS FOR USE

As this pesticide is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

To protect pollinators, follow the instructions regarding bees in the Environmental Hazards section.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Spray Buffer zones:

Spot treatments using handheld equipment **DO NOT** require a spray buffer zone.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of Freshwater Habitats of Depths:	
		Less than 1 m	Greater than 1 m
Field sprayer	Outdoor ornamentals, conifer seedlings	2	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticide portion of the Canada.ca website.

Tank Mixes:

This product may be tank mixed with (a fertilizer, a supplement, or with) registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact FMC of Canada Limited at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on this label.

VEGETABLES & SPECIAL CROPS:

LETTUCE (GREENHOUSE) - CONTROL OF GREY MOLD/SCLEROTINIA DROP

RATE: 2 kg/ha of Rovral® in 2000 L water per hectare. Use a high volume sprayer.

TIMING: Apply a maximum of 1 application per year at the 3-leaf stage. Observe a PHI of 14 days.

ORNAMENTALS

ORNAMENTALS - CONTROL OF *BOTRYTIS* spp.

NOT FOR FOLIAR USE ON CUT FLOWERS

RATE: 10 g Rovral® per 10 litres of water. Apply to the point of run-off, ensuring good coverage of the plants.

TIMING: Treat at the onset of Botrytis and repeat at 21 day intervals, or as necessary. Maximum number of applications is 3 per year.

To reduce the possibility of disease resistance, Rovral® **must** be alternated with other fungicides registered for this use.

The following species have been safely treated:

Adiantum spp
Apehlandra squarrosa
Aralia elegantissima
Aralia sieboldii
Asparagus sprengeri
Asparagus plumosus
Azalea spp
Begonia rex var. Fireglow Chrysanthemum
spp
(all year round)
Chlorophytum spp
Cineraria spp
Ciccus antarctica
Croton spp var. Bravo
Cyclamen spp
Dracaena spp var. Rededge
Episcia cupreata
Euonymus spp
Euphorbia splendens
Ficus spp
Fittonia spp
Fuchsia spp
Geranium (Zonal)
Gesneria spp
Gynura sarmentosa
Hedera spp Hypoestes sanguinolenta
Impatiens spp
Iresine herbstii
Kalanchoe spp
Maranta spp
Monstera deliciosa borsigiana
Neanthe bella
Nepeta (ginger plant)
Nephrolepis spp
Pelargonium spp
Peperomia caperata
Peperomia hederifolia
Peperomia magnoliifolia
Philodendron scandens
Pilea cadierei
Poinsettia spp
Primula spp
Rhoicissus spp
Ruellia makoyana
Saintpaulia ionantha**
Saxifraga stolonifera
Senecio macroglossus variegatum
Setcreasea purpurea
Sinningia spp (Gloxinia)
Solanum capsicastrum
Rosa samantha

** Spraying Saintpaulia flowers may result in petal scorch. Tepid water should be used and the wet plants protected from direct sunlight.

Tolerance of other species should be checked on a few plants before making any large scale applications.

ORNAMENTALS - CONTROL OF DAMPING-OFF CAUSED BY RHIZOCTONIA
DO NOT spray foliage when treating for Rhizoctonia.

RATE: 2 g Rovral® in 5 litres of water applied per square metre as a soil drench. Maximum number of applications is 2 per year with 21 days apart.

TIMING: Treat immediately after picking out when the risk of infection is particularly high.

The following species can be treated: Celosia, Salvia. Tolerance of other species should be checked on a few plants before making any large scale applications.

CONIFER SEEDLINGS (SPRUCE, FIR, HEMLOCK, CEDAR) - CONTROL OF BOTRYTIS BLIGHT:

FOR USE ON CONTAINER OR BAREROOT CONIFER SEEDLINGS IN GREENHOUSES AND CONIFER NURSERIES.

RATE: 1.5 – 2 kg/ha Rovral® in 1100 litres of water/ha. (15-20 grams in 11 litres water/100 m²)

TIMING: Treat at the onset of botrytis, and repeat at 21 day intervals. Do not apply more than 3 applications of Rovral® per year. Only 2 of the applications can occur while in the greenhouse. Do not apply 2 days prior to harvest. To reduce the possibility of disease resistance Rovral® must be alternated with other suitable fungicides registered for this use.

FUNGICIDE RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Rovral® WDG contains a Group 2 fungicide. Any fungal population may contain individuals naturally resistant to Rovral® WDG and other Group 2 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of Rovral® WDG or other Group 2 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify FMC of Canada Limited if reduced sensitivity of the pathogen to Rovral WDG is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact FMC of Canada Limited at 1-833-362-7722.

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