

rovral® flo

FUNGICIDE

NET CONTENTS:

8.4 L

GROUP 2 FUNGICIDE

Contains Iprodione
For Control of Diseases in Canola

AGRICULTURAL

GUARANTEE: Iprodione 240 g/L

Contains 1,2-benzisothiazolin-3-one at 0.014% as a preservative

REGISTRATION NO. 29315 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

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

4588923 060117B 03/06 Printed in the USA

In case of spills, poisoning, or fire,
telephone emergency response number
1-800-331-3148 (24 hours a day).

ROVRAL® is a registered trademark of FMC Corporation.



WARNING: SKIN AND EYE IRRITANT

USE RESTRICTIONS:

- Do not store ROVRAL FLO Fungicide near feed or foodstuffs.
- Thoroughly clean application equipment after use.
- Do not contaminate domestic or irrigation waters.
- Do not allow spray drift onto oats.
- This product should not be applied under conditions where run-off is likely to occur. Do not apply immediately after a rainfall. If rainfall is imminent, delay spraying.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin and eyes. Wear protective gloves and coveralls when handling ROVRAL FLO Fungicide.

Wash hands and exposed skin thoroughly after handling the concentrate and after application.

May be harmful if inhaled.

Avoid working in spray mist.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or www.cropro.org.

Environmental Hazards: Do not apply directly to water. Overspray or drift to sensitive habitats should be avoided. Do not spray when wind is blowing towards terrestrial sensitive areas including forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands, shrublands, and vegetated ditch banks, and the sensitive aquatic habitats including sloughs, ponds, prairie potholes, lakes, rivers, streams, reservoirs, and wetlands. Do not contaminate these sensitive areas through direct application, disposal of waste or cleaning equipment. When a tank mixture is used, consult the label of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

For Aerial Applications: Aerial drift is increased under certain meteorological conditions. Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 16 km/hour at flying height at the site of application.

For Ground Boom Applications: Do not apply during periods of dead calm or when winds are gusty.

FIRST AID:

Remove patient from contaminated area, remove contaminated clothing. Keep patient warm, comfortable, at rest.

Eye contact: Irrigate with water for 15 minutes. Get medical attention or contact a Poison Control Centre **IMMEDIATELY**.

Skin contact: Wash exposed skin with soap and water.

Ingestion: DO NOT induce vomiting. If patient is conscious, wash out mouth. If breathing stops, start artificial respiration. Get medical attention or contact a Poison Control Centre **IMMEDIATELY**.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE CONDITIONS:

Protect from frost.

DISPOSAL:

1. Triple- or pressure-rinse the emptied container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER:

This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on this label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

DIRECTIONS FOR USE:

For mixing, put one half the required water volume in the tank; stir in ROVRAL FLO Fungicide and add the remainder of the water. Ensure mixing is complete. 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). ROVRAL FLO Fungicide should not be mixed with other pesticides, adjuvants or fertilizers, except where stated.

CANOLA:

CONTROL OF SCLEROTINIA STEM ROT AND SUPPRESSION OF ALTERNARIA BLACK SPOT

Timing:

Apply ROVRAL Flo Fungicide when the canola crop is in the 20 - 50% bloom stage. This will be approximately 4-8 days after the canola crop begins to flower.

Best protection will be achieved when a fungicide is applied at the 20 - 30% bloom stage. This will be prior to petals beginning to fall, and will allow for the maximum number of petals to be protected.

ROVRAL Flo Fungicide can be applied until the 50% bloom stage. This will be when the canola crop is at its maximum yellow colour, and prior to significant petal fall.

Rates:

Single Applications: Apply 2.1-3.1 L/ha ROVRAL FLO Fungicide as a ground application in 100 litres of water per hectare, or as an aerial application in at least 45 litres of water per hectare. The 2.1L/ha is the recommended rate for most canola crops, however the higher rate is recommended for fields with a history of severe disease pressure and dense crop stands. Good coverage of the plants is essential.

Split Applications: Apply ROVRAL FLO Fungicide at a rate of 1.05-1.56 L/ha followed by 1.05 L/ha as a ground application in 100 litres of water per hectare, or as an aerial application in at least 45 litres of water per hectare. The first application should be made at the 20% bloom stage of canola. The second application should be made at the 50% bloom stage of canola. The use of the higher rate on the first application is recommended for fields with a history of severe disease pressure and dense crop stands. Good coverage of the plants is essential.

CONTROL OF SCLEROTINIA STEM ROT FOR LOW DISEASE PRESSURE

Single Application Reduced Rate: ROVRAL FLO Fungicide may be applied at a reduced rate of 1.56 L/ha for lower disease pressure and light crop stands. This rate should also be applied as a ground application in 100 litres of water per hectare, or as an aerial application in at least 45 litres of water per hectare. Good coverage of the plants is essential.

CONTROL OF ALTERNARIA BLACK SPOT

Control of alternaria black spot requires an application of ROVRAL Flo Fungicide at **early green pod stage**. ROVRAL Flo Fungicide may be applied as a single spray of 2.1 L/ha at early green pod stage, or as split applications of 1.05 L/ha at 20 - 50% bloom followed by 1.05 L/ha at early green pod stage. If a spray of 2.1 -3.1 L/ha has been applied at 20 - 50% bloom, this will also control sclerotinia stem rot.

Do not make more than 2 applications per season.

Observe a pre-harvest interval of 38 days.

Early Green Pod Stage: Almost all canola pods are fully formed and still green with only a few flowers or undeveloped pods remaining at the top of the plant.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that ROVRAL FLO Fungicide contains a Group 2 fungicide. Any fungal population may contain individuals naturally resistant to ROVRAL FLO Fungicide 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 FLO Fungicide or other Group 2 fungicides with different groups that control the same pathogens. Use tank mixtures with fungicide from a different group 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 cultural, biological and other chemical control practices. Monitor treated fungal populations for resistance development. 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 representatives at 1-800-331-3148 or at www.fmccrop.ca.

AERIAL APPLICATIONS:

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rate and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

USE PRECAUTIONS:

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core and Aerial Module*, developed by CAPCO.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

OPERATOR PRECAUTIONS:

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

PRODUCT SPECIFIC PRECAUTIONS:

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-331-3148 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.

060117B

ROVRAL® is a registered trademark of FMC Corporation.