

2023-6504
2023-12-18

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(Container Label)



Treoris™ Fungicide

GROUP	7, M5	FUNGICIDE
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SUSPENSION

FOR USE ON POTATOES AND CUCURBITS

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

ACTIVE INGREDIENT: Penthiopyrad 100 g/L
Chlorothalonil 250 g/L
Contains 1,2-benzisothiazolin-3-one at 0.019% as a preservative

REGISTRATION NO. 30333 PEST CONTROL PRODUCTS ACT



CAUTION – POISON
SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

NET CONTENTS : 1 L – 1,500 LITRES

Corteva Agriscience Canada Company
Suite 240, 115 Quarry Park Rd. SE
Calgary, AB
T2C 5G9
1-800-667-3852

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PRECAUTIONS

- **KEEP OUT OF REACH OF CHILDREN.**
- Harmful if inhaled. Avoid inhaling/breathing sprays.
- May irritate the skin. Avoid contact with the skin.
- Potential skin sensitizer
- Wear a long-sleeved shirt, long pants, shoes, socks and chemical resistant gloves while mixing/loading, applying and during clean-up and repair.
- Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.
- 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.
- For agricultural uses, do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.
- Do not apply by air unless otherwise directed.
- Apply only when the potential for drift to non-target areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

ENVIRONMENTAL HAZARDS

- Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE
- To reduce runoff from treated areas into aquatic habitats avoid application to areas with a 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.
- As this product 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.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed. To prevent contamination, store this product away from food or feed.

DISPOSAL

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on 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.

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FIRST AID

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

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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 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 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.

TOXICOLOGICAL INFORMATION Treat symptomatically. This product contains petroleum distillate, vomiting may cause aspiration pneumonia

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..

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(Booklet)



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GENERAL INFORMATION

Treoris™ Fungicide is a broad-spectrum fungicide, recommended for control of foliar plant diseases and has curative and locally systemic activity. Treoris Fungicide must be applied in a regularly scheduled protective spray program in rotation with other fungicides. See directions below for specific crop/disease recommendations.

Treoris Fungicide can be applied by ground or air (see specific crops), using sufficient water to obtain thorough coverage of plants. The minimum aerial application volume is 40 L/ha and minimum ground application volume is 110 L/ha.

DIRECTIONS FOR USE

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

As this product 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.

Vegetative Filter Strips

A Vegetative Filter Strip (VFS) of at least 10 metres wide must be constructed and maintained. The VFS is required between the field edge and adjacent, downhill aquatic habitats to reduce risk to aquatic organisms from run-off. Aquatic habitats include, but are not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries. The VFS is to be composed of grasses and may also include shrubs, trees, or other vegetation. Additional guidance can be found on the PMRA Environmental Risk Mitigation webpages. Both VFS and spray drift buffer zones must be observed.

Spray Drift Buffer Zones

Spray drift buffer zones are to protect terrestrial and aquatic habitats from spray drift. Spray drift buffer zones are a separate requirement from VFS which are required to mitigate risks from run-off.

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.

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

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Spot treatments using hand-held equipment DO NOT require a buffer zone.

The spray drift 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		Buffer Zones (meters) Required for the Protection of:			
			Freshwater Habitats of Depths;		Estuarine/Marine Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field Sprayer	Potatoes		2	1	2	1
	Cucurbits		4	1	4	2
Aerial	Potatoes	Fixed-wing	65	4	65	20
		Rotary-wing	50	1	50	15

The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site. This tool cannot be used to reduce the vegetative filter strips.

CUCURBIT VEGETABLES

Do not apply by air. DO NOT apply via sprinkler irrigation system.

*Application of any product containing chlorothalonil cannot be made more frequently than the Retreatment Intervals stated below.			
Crop	Disease	Application Rate	SPECIFIC DIRECTIONS
Cucurbit vegetables Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon	Powdery mildew (<i>Erysiphe cichoracearum</i>)	1.5 L/ha to 2.4 L/ha	Begin applications prior to disease development and continue on a 7- to 14-day interval. Re-treatment interval is minimum 7 days.

RESTRICTIONS AND PRECAUTIONS: Cucurbit vegetables

- Maximum of 2 applications per year.
- Maximum seasonal use rate is 4.8 L/ha.
- Minimum time (PHI) between application and harvest is 1 day.
- For any of the diseases listed above, use the high rate under heavy pest pressure.

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POTATOES

May be applied by air

*Application of any product containing chlorothalonil cannot be made more frequently than the Retreatment Intervals stated below.

Crop	Disease	Application Rate	SPECIFIC DIRECTIONS
Potato	Early blight (<i>Alternaria solani</i>)	1.2 L/ha	Begin applications prior to disease development and continue on a 7 to 14-day interval. Re-treatment interval is minimum 7 days.

RESTRICTIONS AND PRECAUTIONS: Potatoes

- Maximum of 3 applications per year.
- Make no more than 2 sequential applications of Treoris Fungicide before switching to a fungicide with a different mode of action.
- Maximum seasonal use rate is 3.6 L/ha.
- Minimum time (PHI) between application and harvest is 7 days.
- REI for scouting is 3 days, other activities 0.5 days.

CROP ROTATION

Crops and crop groups that are on this label and the following list of crops and crop groups may be planted immediately after harvest:

alfalfa, low-growing berries crop subgroup (strawberries), *brassica* (cole) leafy vegetables crop group, bulb vegetables crop group (onion), cereal crop group including corn, canola, fruiting vegetables crop group (tomato, pepper), leafy vegetables crop group (lettuce, celery, spinach), dry legumes (e.g. chick peas, lentils, peas) and soybeans, legume vegetables crop group (succulent), peanuts, root vegetables crop subgroup (carrot, radish, turnip).

All other crops cannot be planted until 12 months after the last application of Treoris Fungicide.

APPLICATION INFORMATION

Mixing Instructions

1. Fill clean spray tank 1/4 - 1/2 full of water.
2. While agitating, add the required amount of Treoris Fungicide, continuing agitation until the product is completely dispersed.
3. Continue filling the tank, with agitation, adding desired additives

Mix thoroughly to fully disperse the fungicide; once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation.

GROUNDBOOM

Groundboom - Except Applications to Potatoes

If handling more than [340 kg a.i.] in one day, mixers and loaders must use a closed system. Wear coveralls over a long-sleeved shirt and long pants, chemical resistant gloves, socks and shoes during mixing, loading, clean-up, and repair activities. Wear a long sleeved-shirt, long pants, chemical resistant gloves, socks and shoes during application. Gloves are not required during application within a closed cab.

Groundboom Application to Potatoes

Mixers and loaders must use a closed system. Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up, and repair. Applicators treating potato fields must use groundboom equipment with an enclosed cab. Gloves are not required for an applicator in an enclosed cab. Wear chemical-resistant gloves when leaving the cab for clean-up and repair.

AERIAL

Mixers and loaders must use a closed system. The field crew and the mixer/loaders: Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up, and repair. Aerial applicators: Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit.

SPRAYER CLEANUP

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove. Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

AERIAL APPLICATION INSTRUCTIONS

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 rates 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 for Aerial Application

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 **“National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides”**.

Operator Precautions for Aerial Application

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.

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Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions for Aerial Application

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3852 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:

Apply the recommended rate in a minimum spray volume of 40 litres per hectare.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Treoris Fungicide contains a Group 7 and Group M Fungicide. Any fungal population may contain individuals naturally resistant to Treoris Fungicide and other group 7 and Group M 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 Treoris Fungicide or other Group 7 and Group M fungicides with different groups that control the same pathogens.
- ◆ Fungicide use should be based on an integrated disease management 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.
- ◆ 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 Corteva Agriscience Canada Company representatives at 1-800-667-3852.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed. To prevent contamination, store this product away from food or feed.

DISPOSAL

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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NOTICE TO USER

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