

(Container Label)



Penthiopyrad Fungicide Seed Treatment

GROUP	7	FUNGICIDE
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SUSPENSION

A seed treatment product to suppress soil and seed-borne blackleg and seed borne *Alternaria* in Canola, Rapeseed and Mustards and to control the seedling disease complex (damping off, seedling blight, seed rot and root rot) caused by *Fusarium spp.* And *Rhizoctonia solani* in Canola, Rapeseed, Mustards, Corn and Soybeans

AGRICULTURAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

ACTIVE INGREDIENT: Penthiopyrad 250 g/L

Contains bronopol at 0.009 % as a preservative.

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009 % as a preservative.

Contains 2-methyl-4-isothiazolin-3-one at 0.003 % as a preservative.

REGISTRATION NO 31188 PEST CONTROL PRODUCTS ACT

CAUTION – EYE IRRITANT

NET CONTENTS : 100 L, 1000 L, BULK

For use in commercial seed treatment facilities only.

When treating seed, closed transfer, including closed mixing, loading, calibrating, and treatment equipment, must be used.

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the SEEDS ACT must be strictly adhered to when using this product. Seed must be conspicuously coloured at the time of treatment.

Corteva Agriscience Canada Company

2450, 215 – 2nd Street S.W.

Calgary, Alberta

T2P 1M4

1-800-667-3852

TMTrademark of Corteva Agriscience and its affiliated companies.

PRECAUTIONS

- **KEEP OUT OF REACH OF CHILDREN**
- May irritate eyes.
- Avoid contact with eyes.
- Wear a long sleeve shirt, long pants and chemical resistant gloves while mixing/loading and applying. Wear coveralls over a long sleeve shirt, long pants and chemical resistant gloves 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.
- Do not use treated seed for food, feed, or oil processing.
- When treating seed, closed transfer, including closed mixing, loading, calibrating, and treatment equipment, must be used.

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. Have 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 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.

ENVIRONMENTAL HAZARDS

- Toxic to aquatic organisms.
- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

LABELING OF TREATED SEED

All bags containing treated seed must be labelled or tagged as follows:

This seed has been treated with Penthiopyrad Seed Treatment which contains penthiopyrad

- Do not use for feed, food or oil processing.
- Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seed.
- This product is toxic to aquatic organisms.
- Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.
- Dispose of seed packaging in accordance with local requirements.
- Cover or incorporate spilled treated seeds.
- Use a closed-cab tractor during planting.

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

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.

FOR RECYCLABLE CONTAINERS

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:

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FOR REFILLABLE CONTAINERS

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

FOR DISPOSABLE CONTAINERS

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

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.

(Booklet)



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GENERAL INFORMATION

Penthiopyrad Fungicide seed treatment is a flowable suspension that is applied as a seed treatment for early season control of damping-off, seedling blight, seed rot and root rot, caused by *Fusarium spp.*, *Rhizoctonia solani*. and suppression of soil-borne and seed borne black leg and seed-borne *Alternaria*.

DIRECTIONS FOR USE

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the SEEDS ACT must be strictly adhered to when using this product. Seed must be conspicuously coloured at the time of treatment.

Penthiopyrad Fungicide seed treatment is a fungicide seed treatment for use in commercial seed treatment facilities only. It is not for use in on-farm treating systems such as hopper-box or slurry-box applications.

Penthiopyrad Fungicide seed treatment is a seed treatment fungicide which provides protection against certain soil-borne and seed-borne diseases of corn, soybeans and canola. Penthiopyrad Fungicide seed treatment is active against *Fusarium*, *Rhizoctonia*, blackleg and *Alternaria*. When rate ranges are given, use higher rates where disease pressure is expected to be severe.

CANOLA, RAPESEED, MUSTARD (OIL AND CONDIMENT VARIETIES)

CROP	PEST	RATE mL of Penthiopyrad Fungicide Seed Treatment per 100 kg seed	SPECIFIC DIRECTIONS
CANOLA, RAPESEED, MUSTARD (oil and condiment varieties)	Damping-off, seedling blight, seed rot and root rot caused by <i>Fusarium spp.</i> and <i>Rhizoctonia solani</i>	80-200 (equivalent to 20 to 50 g ai/100 kg seed)	Use the higher rates in areas with high pest pressure, or where extended early season control is required.
	Suppression of Blackleg, Soil-borne and seed-borne (<i>Leptosphaeria maculans</i>)	80-200 (equivalent to 20 to 50 g ai/100 kg seed)	
	Suppression of <i>Alternaria</i> , seed-borne (<i>Alternaria brassicae</i>)	80-200 (equivalent to 20 to 50 g ai/100 kg seed)	

SOYBEAN

CROP	PEST	RATE of Penthiopyrad Fungicide Seed Treatment	SPECIFIC DIRECTIONS
SOYBEANS	Damping-off, seedling blight, seed rot and root rot caused by <i>Fusarium spp.</i> and <i>Rhizoctonia solani</i>	0.015 to 0.045 mg ai/seed	Use the higher rates in areas with high pest pressure, or where extended early season control is required.

CORN

CROP	PEST	RATE of Penthiopyrad Fungicide Seed Treatment	SPECIFIC DIRECTIONS
CORN	Damping-off, seedling blight, seed rot and root rot caused by <i>Fusarium spp.</i> and <i>Rhizoctonia solani</i>	0.015 to 0.045 mg ai/seed	Use the higher rates in areas with high pest pressure, or where extended early season control is required.

Seed Storage

Field and laboratory tests have demonstrated that application of Penthiopyrad Fungicide seed treatment to canola, corn and soybeans will not negatively affect germination. However, due to seed quality and seed storage conditions beyond the control of Corteva Agriscience Canada Company, no claims are made to guarantee the germination of carry-over seed.

Treatment of damaged seed, or seed known to be of low vigour and poor quality, may result in reduced germination and/or seed and seedling vigour. In cases where seed quality is unknown, treat a small portion of the seed with Penthiopyrad Fungicide seed treatment and confirm acceptable germination, prior to treating the entire seed lot.

MIXING INSTRUCTIONS

Dilute in a sufficient volume to obtain thorough, uniform coverage.

Polymers, colourants, and other additives should be tested for compatibility and seed safety prior to use in combination with Penthiopyrad Fungicide seed treatment.

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ROTATIONAL CROP RESTRICTIONS

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, cereal grains (wheat, oats, barley), low-growing berries crop subgroup (strawberries), *brassica* (cole) leafy vegetables crop group, bulb vegetables crop group (onion), cucurbit vegetables crop group (cucumber, melons, squash), fruiting vegetables crop group (tomato, pepper), leafy vegetables crop group (lettuce, celery, spinach), legume vegetables crop group (dried and succulent), peanuts, root vegetables crop subgroup (carrot, radish, turnip), sugarbeet, sunflower, tuberous and corm vegetables and leaves (potato).

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

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Penthiopyrad Fungicide seed treatment contains a Group 7 Fungicide. Any fungal population may contain individuals naturally resistant to Penthiopyrad Fungicide seed treatment and other group 7 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 Penthiopyrad Fungicide seed treatment or other Group 7 fungicides with different groups that control the same pathogens. Use tank mixtures with fungicides from different groups 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 Corteva Agriscience Canada Company representatives at 1-800-667-3852.

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