



Straxan™ Fungicide Seed Treatment

GROUP	3, 4	FUNGICIDES
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Seed Treatment for control of certain diseases of the following cereal crops: wheat, barley, oats, rye and triticale

COMMERCIAL

SUSPENSION

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

ACTIVE INGREDIENT:	Difenoconazole	36.3 g/L
	Metalaxyl	12.6 g/L
	Tebuconazole	4.6 g/L

Contains 1,2-benzisothiazolin-3-one at 0.04% as a preservative
OR

Contains 1,2-benzisothiazolin-3-one at 0.04% and 2-Bromo-2-nitropropane-1,3-diol at 0.02% as preservatives.

REGISTRATION NO. 34928 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1-1000 L

Corteva Agriscience Canada Company

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Calgary, Alberta

T2C 5G9

1-800-667-3852

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PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of vapours or spray mist. Wash hands and face after handling and before eating or smoking. Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring. For good hygiene practice, it is recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.

Treat seed in a well-ventilated area.

Seed Types	Tasks	PPE/ Engineering Controls
For Commercial Seed Treatment (including mobile treaters)		
All seed types	Treating / Bagging / Sewing / Stacking / Driving a Forklift	Closed transfer system only. Closed transfer includes closed mixing, loading, calibrating, and closed treatment equipment. During mixing, loading, treating, calibrating, bagging, sewing seed bags, stacking, driving a forklift and any other activities involving handling treated seeds, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.
	Cleaning and repairing	During cleaning and repairing, wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear.
For On-Farm Seed Treatment and Planting of On-Farm Treated Seeds		
All seed types	Treating / Handling / Planting / Cleaning and repairing	Open or closed transfer. During mixing, loading, treating, calibrating, cleaning, repairing, planting and any other activities involving handling treated seeds, wear long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Use a closed-cab tractor when planting. Gloves are not required within the closed cab.
For Planting Commercially Treated Seeds		
All seed types	Planting	During handling and planting of commercially treated seeds, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Use a closed-cab tractor when planting. Gloves are not required within the closed cab.

All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows:

“This seed has been treated with Straxan Fungicide Seed Treatment which contains the fungicides difenoconazole, metalaxyl and tebuconazole. Do not use treated seed for food, feed or oil processing. Store away from feeds and other foodstuffs. During handling and planting of commercially treated seeds, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Use a closed-cab tractor when planting. Gloves are not required within the closed cab.”

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 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 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.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

- Toxic to aquatic organisms.
- 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.
- This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

GRAZING RESTRICTIONS

- Do not graze, feed green forage or cut for hay within 35 days of planting of cereals.
- Do not plant any crop other than cereals within 30 days to fields in which treated seeds were planted.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool, dry place and avoid excessive heat. Keep container closed. Do not contaminate water, food, or feed by storage, disposal, or by cleaning of equipment.

DISPOSAL

Disposal Of Treated Seed

- **Dispose of all excess treated seed. Left over treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.**
- **Dispose of seed packaging in accordance with local requirements. DO NOT re-use bags from treated seed to handle food or feed products.**

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:

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.

Returnable Containers

Do not reuse this container for any purpose. For disposal, the empty container may be returned to the point of purchase (distributor/dealer).

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.

GENERAL INFORMATION

Straxan Fungicide Seed Treatment is a ready-to-use water-based systemic seed dressing which controls or suppresses certain seed- and soil-borne diseases of cereal crops, as listed below. The formulation contains a colouring agent which will colour the treated seed.

Note: Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigour. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of the seed before committing the total seed lot to a selected seed treatment. 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.

DIRECTIONS FOR USE

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

Straxan Fungicide Seed Treatment is a ready-to-use water-based formulation for use in commercial seed treatment plants, and for on-farm treatment using standard gravity flow or mist type seed treatment equipment which accurately meters and mixes a flowable seed treatment. Straxan Fungicide Seed Treatment may also be used in a treat-on-the-go air seeder. The equipment must provide uniform coverage of Straxan Fungicide Seed Treatment on the seed. Uneven seed coverage may not give the desired level of disease control.

This product does not require the addition of water for application. Consult the manufacturer of the application equipment planned to be used for suitability for this application and for instructions on operation and calibration of the equipment. Water can be added to Straxan Fungicide Seed Treatment to create a slurry if additional seed coverage is required. Total application volume must be adjusted to reflect the additional volume so that the correct amount of Straxan Fungicide Seed Treatment is applied to each unit of seed (325 mL/100 kg).

Crop Seed	Diseases	Use Rate per 100 kg Seed
Wheat, Rye, Triticale	Diseases Controlled Seed rot/pre-emergence damping-off caused by <i>Aspergillus</i> spp., and <i>Penicillium</i> spp. ² Loose smut (<i>Ustilago tritici</i>) Common bunt and stinking smut (<i>Tilletia caries</i> , <i>T. tritici</i> , <i>T. laevis</i>) Dwarf bunt (<i>Tilletia controversa</i>) on wheat and rye only ² Seed rot and pre-emergent damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. Seedling blight caused by seed-borne <i>Fusarium</i> spp. Damping-off caused by <i>Pythium</i> spp.	325 mL

	<p>Diseases Suppressed¹ Root and Crown rot caused by seed- and soil-borne <i>Fusarium spp.</i> Common root rot caused by seed- and soil-borne <i>Cochliobolus sativus</i> Seed rot and pre-emergent damping-off caused by seed- and soil-borne <i>Cochliobolus sativus</i> Seedling blight caused by seed-borne <i>Cochliobolus sativus</i> Take-all (<i>Gaeumannomyces graminis</i>)²</p>	325 mL
Barley	<p>Diseases Controlled Seed rot/pre-emergence damping-off caused by <i>Aspergillus spp.</i>, and <i>Penicillium spp.</i>² True loose smut (<i>Ustilago nuda</i>) Covered smut (<i>Ustilago hordei</i>) False loose smut (<i>Ustilago nigra</i>) Seed rot and pre-emergent damping-off caused by seed- and soil-borne <i>Fusarium spp.</i> Seedling blight caused by seed-borne <i>Fusarium spp.</i> Damping-off caused by <i>Pythium spp.</i></p>	325 mL
	<p>Diseases Suppressed¹ Root and Crown rot caused by seed- and soil-borne <i>Fusarium species</i> Common root rot caused by seed- and soil-borne <i>Cochliobolus sativus</i> Seed rot and pre-emergent damping-off caused by seed- and soil-borne <i>Cochliobolus sativus</i> Seedling blight caused by seed-borne <i>Cochliobolus sativus</i></p>	325 mL
Oats	<p>Diseases Controlled Seed rot/pre-emergence damping-off caused by <i>Aspergillus spp.</i>, and <i>Penicillium spp.</i>² Covered smut (<i>Ustilago kollerii</i>) Loose smut (<i>Ustilago avenae</i>) Seed rot and pre-emergent damping-off caused by seed- and soil-borne <i>Fusarium spp.</i> Seedling blight caused by seed-borne <i>Fusarium spp.</i> Damping-off caused by <i>Pythium spp.</i></p>	325 mL
	<p>Diseases Suppressed¹ Root and Crown rot caused by seed- and soil- borne <i>Fusarium species</i> Common root rot caused by seed- and soil-borne <i>Cochliobolus sativus</i> Seed rot and pre-emergent damping-off caused by seed- and soil-borne <i>Cochliobolus sativus</i> Seedling blight caused by seed-borne <i>Cochliobolus sativus</i></p>	325 mL

1. Suppression means consistent control at a level which is not optimal but is still of commercial benefit.
2. Straxan Fungicide Seed Treatment will control or suppress these diseases under normal field conditions.

Tank Mixtures

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 Corteva Agriscience Canada Company at 1-800-667-3852 or www.corteva.ca for information before applying any tank mix that is not specifically recommended on this label.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Straxan Fungicide Seed Treatment contains Group 3 and Group 4 fungicides. Any fungal population may contain individuals naturally resistant to Straxan Fungicide Seed Treatment and other Group 3 and Group 4 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 Straxan Fungicide Seed Treatment or other Group 3 and Group 4 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- 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/bacterial populations for resistance development. Notify Corteva Agriscience Canada Company if reduced sensitivity of the pathogen to Straxan Fungicide Seed Treatment 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 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 at 1-800-667-3852 or at www.corteva.ca.

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. The user assumes the risk to persons or property that arises from any such use of this product.

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Label Code: CN-34928-002-E

Replaces: CN-34928-001-E

Specimen Label Notes

Address update to Quarry Park