



Lumiscend™ LUXE Fungicide Seed Treatment

GROUP	3, 4, 7	FUNGICIDES
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SUSPENSION

FOR SALE AND FOR USE ON CEREAL CROPS

A seed treatment product for control or suppression of seed-borne and soil-borne seedling diseases caused by *Fusarium* spp., *Rhizoctonia solani* and *Pythium* spp., seed rot caused by *Aspergillus* spp. and *Penicillium* spp., and bunts and smuts in cereal crops: wheat, barley, oats, rye and triticale.

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

COMMERCIAL - AGRICULTURAL

ACTIVE INGREDIENTS:

Inpyrfluxam	3.1 g/L
Ipconazole	4.61 g/L
Metalaxyl-M and S-isomer	9.2 g/L
Difenoconazole	36.9 g/L

Contains 1,2-benzisothiazolin-3-one at 0.019% as a preservative.
Warning, contains the allergen sulfites.

REGISTRATION NO 35713 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 - 1500 L

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.

Commercial seed treatment (facilities and mobile treaters) with closed transfer, including closed mixing, loading, calibrating, and closed treatment equipment only is permitted. No open transfer is permitted for commercial seed treatment.

On-farm treatment with open transfer, including open mixing, loading calibrating, and open treatment equipment, is permitted.

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PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

- **DO NOT** eat, drink or smoke/vape while using this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum/tobacco, smoking/vaping, or using the toilet. Vehicle cabs must be decontaminated regularly.
- Follow the personal protective equipment and restriction requirements for the appropriate task and scenario:

Seed Types	Tasks	PPE/ Engineering Controls
For Commercial Seed Treatment Facilities and Mobile Treater		
Wheat (spring, winter, durum), barley, oats, rye, triticale	Mixing, loading, treating and calibrating	Closed-transfer system only ¹ . Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.
	Bagging, sewing, stacking seed bags and driving a forklift	Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a respirator ² .
	Cleaning and repairing	Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator ² .
For Handling and Planting Commercially Treated Seeds		
Wheat (spring, winter, durum), barley, oats, rye, triticale	Handling and planting	Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a respirator ² . Use a closed-cab tractor ³ when planting. Gloves are not required within a closed cab.
For On-Farm Seed Treatment and Planting of Treated Seeds		
Wheat (spring, winter, durum), barley, oats, rye, triticale	Mixing, loading, treating, calibrating, cleaning, repairing, planting and any other activities involving handling treated seeds	Open or closed transfer. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a respirator ² . Use a closed-cab tractor ³ when planting. Gloves are not required within a closed cab.

¹A closed-transfer system includes closed mixing, loading, calibrating and closed treatment. No open transfer is permitted.

²A respirator is a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.

³The respirator is not required during planting when the closed cab provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapor/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab.

- If the product comes in contact with clothing/PPE, remove all contaminated clothing/PPE, wash with soap and water and dress in clean clothing. Wash the outside of gloves with soap and water before removing. Launder contaminated clothing/PPE regularly and separately from other laundry.
- **DO NOT** use treated seed for food, feed, or oil processing.
- 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.

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 PRECAUTIONS

- Toxic to aquatic organisms and non-target terrestrial plants.
- 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.

LABELING OF TREATED SEED

- All containers or packages containing treated wheat, barley, oats, rye and triticale seed for sale or use in Canada must be labelled or tagged as follows: KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS.
- This seed has been treated with Lumiscend LUXE which contains Inpyrfluxam, Ipconazole, Metalaxyl-M and S-isomer, and Difenoconazole.
- DO NOT use for feed, food or oil processing.
- Store this product away from food and feed.
- During handling and planting treated seed, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested. Use a closed-cab tractor when planting. Gloves are not required within a closed cab. The respirator is not required during planting when the closed cab provides both a physical barrier and respiratory protection (such as dust/mist/ filtering and/or vapour/gas purification system).
- Dispose of seed packaging in accordance with local requirements.
- 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. Dispose of all excess treated seed. Leftover treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.

STORAGE

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

DISPOSAL

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 or territorial requirements.

Returnable containers

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

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.

Disposal of unused, unwanted product: For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup of spills.

GENERAL INFORMATION

Lumiscend LUXE is a flowable suspension that is applied as a seed treatment for early season protection of cereals from seed and seedling diseases.

DIRECTIONS FOR USE

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.

Lumiscend LUXE is a ready-to-use formulation with built-in red colour. Lumiscend LUXE is a fungicide seed treatment for use in commercial seed treatment facilities and mobile treaters with closed transfer only. On-farm seed treatment is permitted. Open transfer of Lumiscend LUXE is permitted for on-farm treatment only. This product does not require the addition of water for application. Water can be added to Lumiscend LUXE to create a slurry if additional seed coverage is required.

Apply only in areas with adequate ventilation or in areas that are equipped to remove mist or dust.

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

DO NOT apply by air.

After planting field with treated seeds, follow these restrictions:

- **DO NOT** graze or feed forage or cut hay within 35 days.

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.

USE RATE

CROP	TARGET DISEASES (PATHOGEN)	USE RATE* mL/100 kg seed	USE RATE* g ai/ 100 kg seed
Wheat (spring and winter)	<p>Diseases Controlled Seed rot (<i>Penicillium</i> spp. and <i>Aspergillus</i> spp.) Seed rot, pre-emergence and post-emergence damping-off and seedling blight (seed- and soil-borne <i>Fusarium</i> spp. and <i>Rhizoctonia solani</i>) Seed rot, seedling root rot, and seedling blight (soil-borne <i>Pythium</i> spp.) Seed rot and seedling blight (seed- and soil-borne <i>Cochliobolus sativus</i>) Loose smut (<i>Ustilago tritici</i>) Common bunt (<i>Tilletia tritici</i>) Dwarf bunt (<i>Tilletia controversa</i>)</p> <p>Diseases Suppressed Crown and foot rot (<i>Fusarium</i> spp.) Take-all (<i>Gaeumannomyces graminis</i>)</p>	325 mL product/100 kg seed	17.5
Oats	<p>Diseases Controlled Seed rot (<i>Penicillium</i> spp. and <i>Aspergillus</i> spp.) Seed rot, pre-emergence and post-emergence damping-off and seedling blight (seed- and soil-borne <i>Fusarium</i> spp. and <i>Rhizoctonia solani</i>) Seed rot and seedling blight (seed- and soil-borne <i>Cochliobolus sativus</i>) Seed rot, seedling root rot, and seedling blight (soil-borne <i>Pythium</i> spp.) Loose smut (<i>Ustilago avenae</i>) Covered smut (<i>Ustilago kollerii</i>)</p> <p>Diseases Suppressed Crown and foot rot (<i>Fusarium</i> spp.)</p>	325 mL product/100 kg seed	17.5

Barley	<p>Diseases Controlled Seed rot (<i>Penicillium</i> spp. and <i>Aspergillus</i> spp.) Seed rot, pre-emergence and post-emergence damping-off and seedling blight (seed- and soil-borne <i>Fusarium</i> spp. and <i>Rhizoctonia solani</i>) Seed rot and seedling blight (seed- and soil-borne <i>Cochliobolus sativus</i>) Seed rot, seedling root rot, and seedling blight (soil-borne <i>Pythium</i> spp.) True loose smut (<i>Ustilago nuda</i>) Covered smut (<i>Ustilago hordei</i>) False loose smut (<i>Ustilago nigra</i>) Leaf stripe (<i>Pyrenophora graminea</i>)</p> <p>Diseases Suppressed Crown and foot rot (<i>Fusarium</i> spp.) Take-all (<i>Gaeumannomyces graminis</i>)</p>	325 mL product/100 kg seed	17.5
Rye, Triticale	<p>Diseases Controlled Seed rot (<i>Penicillium</i> spp. and <i>Aspergillus</i> spp.) Seed rot, pre-emergence and post-emergence damping-off and seedling blight (seed- and soilborne <i>Fusarium</i> spp. and <i>Rhizoctonia solani</i>) Seed rot and seedling blight (seed- and soil-borne <i>Cochliobolus sativus</i>) Seed rot, pre-emergence and post-emergence damping-off, seedling root rot, and seedling blight (soil-borne <i>Pythium</i> spp.) Common bunt (<i>Tilletia tritici</i>) Dwarf bunt (<i>Tilletia controversa</i>) Loose smut (triticale)</p> <p>Diseases Suppressed Crown and foot Rot (<i>Fusarium</i> spp.) Take-all (<i>Gaeumannomyces graminis</i>)</p>	325 mL product/100 kg seed	17.5

*Lumiscend LUXE at the application rate of 325 mL/100 kg seed rate delivers 1.0 g ai/100 kg seed of Inpyrfluxam, 1.5 g ai/100 kg seed of Ipconazole, 3.0 g ai/100 kg seed of Metalaxyl-M and S-isomer, and 12.0 g ai/100 kg seed of Difenconazole.

Seed Storage

Field and laboratory tests have demonstrated that application of Lumiscend LUXE to cereal crops seed 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 Lumiscend LUXE and confirm acceptable germination, prior to treating the entire seed lot.

MIXING INSTRUCTIONS

Lumiscend LUXE is a ready-to-use formulation for use in commercial seed treatment facilities, and for on-farm treatment. The equipment must provide uniform coverage of Lumiscend LUXE 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. Water can be added to Lumiscend LUXE to create a slurry if additional seed coverage is required. Dilute in a sufficient volume to obtain thorough, uniform coverage. The total application volume must be adjusted to reflect the additional volume so that the correct amount of Lumiscend LUXE is applied each unit of seed (325 mL/100 kg).

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

ROTATIONAL CROP RESTRICTIONS

DO NOT plant any crop other than cereals within 30 days to fields in which treated seeds were planted.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Lumiscend LUXE contains Group 3, 4 and 7 fungicides. Any fungal population may contain individuals naturally resistant to Lumiscend LUXE and other Group 3, 4 and 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 Lumiscend LUXE or other Group 3, 4 and 7 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective against 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 Corteva Agriscience Canada Company if reduced sensitivity of the pathogen to Lumiscend LUXE 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 representatives at 1-800-667-3852.

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-35713-001-E

Specimen Label Notes:
Initial registration