



## Lumiflex™ Fungicide Seed Treatment

**IMPORTANT: ALWAYS SHAKE OR STIR PRODUCT WELL BEFORE USE**

<b>GROUP</b>	<b>3</b>	<b>FUNGICIDE</b>
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Lumiflex™ Fungicide Seed Treatment controls or suppresses seed, seedling and soil-borne diseases caused by the listed organisms on field corn; sweet corn; popcorn; soybean; and canola (including canola-quality *Brassica juncea*).

SUSPENSION

AGRICULTURAL

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PROTECT FROM FREEZING

**ACTIVE INGREDIENT:** Ipconazole ..... 450 g/L

REGISTRATION NO 33095 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:** 85 mL to BULK

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to colouration of treated seed under the *Seeds Act* must be strictly adhered to when using this product.

**Corteva Agriscience Canada Company**

Suite 240, 115 Quarry Park Rd. SE

Calgary, AB

T2C 5G9

1-800-667-3852

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## PRECAUTIONS

1. KEEP OUT OF REACH OF CHILDREN.
2. Commercial handlers (including facility workers and mobile treaters):
  - When mixing, loading, applying, cleaning or handling Lumiflex Fungicide Seed Treatment, or contaminated equipment or seeds treated with Lumiflex Fungicide Seed Treatment, wear cotton coveralls over a long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves. In addition, wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed or when transferring seed to a storage bin.

On-farm handlers/workers:

  - When mixing, loading, applying, cleaning or handling Lumiflex Fungicide Seed Treatment, contaminated equipment or seeds treated with Lumiflex Fungicide Seed Treatment, wear coveralls over a long-sleeved shirt, long pants, shoes and socks, goggles and chemical-resistant gloves. In addition, wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed or when transferring seed to a storage bin.

Planters:

  - When planting on-farm treated seeds (i.e., from bulk), use an open- or closed-cab tractor and wear cotton coveralls over a long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves. Gloves are not required while driving the tractor.
  - When planting commercially treated seeds (i.e., from bags), use a closed-cab tractor when planting more than 2800 kg of treated seeds per day and wear a long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves. Gloves are not required while driving the tractor.
3. Use good personal hygiene, washing hands and exposed skin with warm water and soap before eating, drinking, or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.

## 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 to 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 to 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

There is no specific antidote if this product is ingested. Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

## ENVIRONMENTAL HAZARDS

Treated seed is 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.

## STORAGE AND DISPOSAL

### STORAGE

To prevent contamination, store this product away from food or feed.

## **DISPOSAL**

### **FOR NON-RETURNABLE CONTAINERS**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the 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.

For information on disposal of unused, unwanted product, contact the manufacturer and the provincial regulatory agency. Contact the manufacturer or 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:

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 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).

### **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 use this container for any other purpose.

### **TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY)**

This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment.

Follow these steps for rinsing of containers:

1. Transfer Lumiflex Fungicide Seed Treatment from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the Lumiflex Fungicide Seed Treatment and rinse water in the applicator tank prior to use.

**CAUTION:** Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

### **DISPOSAL OF UNUSED, UNWANTED PRODUCT**

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### **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.

2023-6504  
2023-12-18

Page 4

(Booklet)



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### PRECAUTIONS:

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2. Commercial handlers (including facility workers and mobile treaters):
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On-farm handlers/workers:

  - When mixing, loading, applying, cleaning or handling Lumiflex Fungicide Seed Treatment, contaminated equipment or seeds treated with Lumiflex Fungicide Seed Treatment, wear coveralls over a long-sleeved shirt, long pants, shoes and socks, goggles and chemical-resistant gloves. In addition, wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed or when transferring seed to a storage bin.

Planters:

  - When planting on-farm treated seeds (i.e., from bulk), use an open- or closed-cab tractor and wear cotton coveralls over a long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves. Gloves are not required while driving the tractor.
  - When planting commercially treated seeds (i.e., from bags), use a closed-cab tractor when planting more than 2800 kg of treated seeds per day and wear a long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves. Gloves are not required while driving the tractor.
3. Use good personal hygiene, washing hands and exposed skin with warm water and soap before eating, drinking, or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.

### FIRST AID

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

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### TOXICOLOGICAL INFORMATION

There is no specific antidote if this product is ingested. Treat symptomatically.

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

### ENVIRONMENTAL HAZARDS

Treated seed is 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.

### GENERAL INFORMATION

Lumiflex Fungicide Seed Treatment is a seed treatment containing the systemic, broad spectrum fungicide ipconazole. It controls or suppresses seed, seedling and soil-borne diseases caused by the listed organisms on field corn; sweet corn; popcorn, soybean, and canola (including canola-quality *Brassica juncea*).

**DIRECTIONS FOR USE**

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

**For corn:** Lumiflex Fungicide Seed Treatment is intended ONLY for use by commercial seed treatment applicators (including mobile treaters). Commercial seed treatment facilities (including mobile treaters) must use a closed-transfer system ONLY, including closed mixing, loading, calibrating, and closed-treatment equipment.

**For soybeans and canola:** Lumiflex Fungicide Seed Treatment may be applied either on-farm, in commercial seed treatment facilities or by mobile treaters. Commercial facilities (including mobile treaters), must use a closed-transfer system ONLY, including closed mixing, loading, calibrating, and closed-treatment equipment. On-farm facilities may employ a closed- or an open-transfer system.

DO NOT apply by air.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

**ALWAYS SHAKE OR STIR PRODUCT WELL BEFORE USE**

Apply Lumiflex Fungicide Seed Treatment using standard seed treatment equipment. Uniform application on seed is necessary to ensure optimum performance. Use only in treating equipment which can accurately control application rate and provide good distribution of the chemical onto the seed in the mixing chamber. NOT for use in hopper box, slurry-box or similar seed treatment applications.

This product contains no dye or colourant. An appropriate seed colourant must be applied. This product must be diluted with water or tank-mix partners prior to application, and agitated to keep the slurry uniform, to assure uniform seed coverage. A minimum total slurry volume of 100 mL/100 kg seed is recommended. Do not tank-mix with other products unless compatibility has been confirmed and is used at approved rates and according to all label directions; or is specified on this label. The optimum treating process and slurry composition depends on the crop, the treating process and application conditions. If assistance is required for treating recommendations, contact your Corteva Agriscience Canada Company representative.

CROP	APPLICATION RATE	DISEASES CONTROLLED	DISEASES SUPPRESSED
Corn* (field corn, sweet corn and popcorn)	5.6 mL / 100 kg seed	Seed rot / pre-emergence damping off caused by seed-borne <i>Aspergillus</i> spp., <i>Cladosporium</i> spp., <i>Fusarium</i> spp. and <i>Rhizopus</i> spp.  Seedling Blight caused by seed-borne <i>Fusarium</i> spp.  Seed rot / pre-emergence damping-off and seedling blight caused by soil-borne <i>Fusarium</i> spp.  Seed rot/ pre-emergence damping-off caused by soil-borne <i>Rhizoctonia solani</i>	Seed rot / pre-emergence damping-off caused by seed-borne <i>Penicillium</i> spp.

	22.2 mL / 100 kg seed	Corn head smut caused by seed-and soil-borne <i>Sphacelotheca reiliana</i>	
Soybeans	5.6 mL / 100 kg seed  ----- To deliver 0.004 mg ai per seed, apply 0.9 mL / 100,000 seeds, or 1.3 mL / 140,000 seed units (based on an average of 6,173 seeds / kg	Seed rot ( <i>Penicillium</i> spp. and <i>Aspergillus</i> spp.)  Seed rot/pre-emergence damping-off, post-emergence damping-off, seedling blight ( <i>Rhizoctonia solani</i> , <i>Fusarium</i> spp.)  Seedling Root Rot ( <i>Rhizoctonia solani</i> )  Seed Rot ( <i>Phomopsis longicolla</i> )	Seedling Root Rot ( <i>Fusarium</i> spp.)
Canola (including canola-quality <i>Brassica juncea</i> )	11.1 – 22.2 mL / 100 kg seed	Seed rot, damping-off and seedling blight caused by soilborne <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp.	Root rot caused by soil-borne <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp.
	22.2 mL / 100 kg seed	Blackleg disease caused by seed- and soil-borne <i>Leptosphaeria maculans</i>	

\* includes grains, forage and silage

### TANK-MIXTURES

Lumiflex Fungicide Seed Treatment may be applied with Belmont 2.7 FS Fungicide to control *Pythium* spp. and/or *Phytophthora* spp. Refer to the Belmont 2.7 FS Fungicide label for information regarding the list of pathogens controlled on the target crop.

For other tank-mixes, do not use Lumiflex Fungicide Seed Treatment in combination with other seed treatment products unless their compatibility has been verified. When used in a tank-mix, follow all use directions and the most restrictive precautions and restrictions on the individual product labels.

### APPLICATION CAUTIONS

1. COLOURATION OF TREATED SEED: This product contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to colouration of treated seed enforced under the *Seeds Act* must be strictly adhered to when using this product.
2. SEED QUALITY: Laboratory and field studies have shown that Lumiflex Fungicide Seed Treatment applied to corn, soybean and canola will not adversely affect germination.

However, treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treatment of mechanically scarred or damaged seed, or of seed known to be of low germ, low vigor and poor quality is not recommended. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Corteva Agriscience Canada Company, no claims are made to guarantee germination of carry-over seed.

### USE RESTRICTIONS

- **For corn:** Lumiflex Fungicide Seed Treatment may only be applied by commercial seed treatment applicators. On-farm seed treatment is not permitted.

2023-6504  
2023-12-18

Page 8

- **Do not** use treated seed for food, feed or oil processing.
- **Do not** contaminate feed or foodstuffs.
- **Do not** contaminate ponds, lakes or streams.
- **Do not** store treated seed above 25°C or in direct sunlight.
- **Do not** graze or feed livestock on treated areas for 30 days after planting treated cereal seeds.

### **LABELING TREATED SEED**

All bags containing treated seed treated with this product must be labeled or tagged as follows:

“This seed has been treated with Lumiflex Fungicide Seed Treatment, which contains ipconazole. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. When planting or handling treated seeds, workers must wear a long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves. Gloves are not required while driving the tractor. A closed-cab tractor is required when planting more than 2800 kg of treated seeds per day.”

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that Lumiflex Fungicide Seed Treatment contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to Lumiflex Fungicide Seed Treatment and other Group 3 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 Lumiflex Fungicide Seed Treatment or other Group 3 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program (IPM) 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 threshold, as well as cultural, biological and other chemical control practices.
- Where possible, make sure 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 Lumiflex 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 or to report suspected resistance contact Corteva Agriscience Canada Company at 1-800-667-3852.

### **STORAGE AND DISPOSAL**

#### **STORAGE**

To prevent contamination, store this product away from food or feed.

#### **DISPOSAL**

#### **FOR NON-RETURNABLE CONTAINERS**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the 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.

For information on disposal of unused, unwanted product, contact the manufacturer and the provincial regulatory agency. Contact the manufacturer or the provincial regulatory agency in case of a spill, and for clean-up of spills.

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This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment.

Follow these steps for rinsing of containers:

1. Transfer Lumiflex Fungicide Seed Treatment from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the Lumiflex Fungicide Seed Treatment and rinse water in the applicator tank prior to use.

**CAUTION:** Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

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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.

### **NOTICE TO USER**

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