



# Lumialza™

## Nematicide Seed Treatment

COMMERCIAL

LIVE ORGANISM SOLUTION

A biological seed treatment that provides early season protection against listed plant parasitic nematodes.

**ACTIVE INGREDIENT:** *Bacillus amyloliquefaciens* strain PTA-4838..... $5.1 \times 10^{10}$  cfu/g (minimum)

REGISTRATION NUMBER: 34185 PEST CONTROL PRODUCTS ACT

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

**NET CONTENTS:** 0.5 – 1,000 L

Lumialza™ contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the *Seeds Act* must be strictly adhered to when using this product. Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour.

### **Corteva Agriscience Canada Company**

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1-800-667-3852

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## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

May cause sensitization. Avoid contact with skin, eyes and clothing. Avoid inhaling/breathing spray mist.

Wear a long-sleeved shirt, long pants, water-proof gloves, shoes with socks, and wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter during mixing, loading, application, clean-up, and repair.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

### **FIRST AID**

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

**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 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 the person to fresh air. If the 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 SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have the 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.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

### **ENVIRONMENTAL PRECAUTIONS**

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

Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

### **STORAGE**

Store the product in original container, in a cool, dry area way from excessive heat. Store the product away from food and feed. This product should be used within 12 months from the date of manufacture when stored at room temperature (20°C).

### **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 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.

### **USE INFORMATION**

Lumialza must be used only in accordance with use instructions on this label utilizing commercial liquid or slurry seed treating equipment that is calibrated to accurately and uniformly apply the product to the seed. This product is for use only in commercial seed treatment facilities. Always mix product thoroughly before use.

Lumialza contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour.

There is no restricted entry interval for this application method.

### **SEED QUALITY AND STORAGE OF TREATED SEED**

Seed treatments applied to low vigour or poor quality seed or to mechanically damaged seed may result in loss of seed germination or reduced seedling vigour. To verify seed safety, treat a small portion of seed with the desired slurry mixture (Lumialza alone or in combination with other commercial seed treatment products) prior to treatment of an entire seed lot. Utilize standard seed germination methodologies to determine and verify seed safety. Use proper storage conditions for treated seed. 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 treated seed.

### **LABELLING OF TREATED SEED**

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

- This seed has been treated with Lumialza which contains *Bacillus amyloliquefaciens* strain PTA-4838.
- Do not use for feed, food or oil processing. Store treated seed away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, protective gloves and a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter when handling treated seed.
- 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.
- Do not contaminate water bodies when disposing of planting equipment washwaters.
- Dispose of seed packaging or containers in accordance with local requirements.

### **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](http://www.corteva.ca) for information before applying any tank mix that is not specifically recommended on this label.

**APPLICATION DIRECTIONS**

Accurate application of Lumialza to seed is required for best performance. Apply as a water-based suspension of adequate volume to distribute product uniformly over seed surface area. The volume of suspension will vary according to seed type and whether companion seed treatments are used.

Thoroughly pre-mix Lumialza with water to assure a uniform suspension. Mix the necessary amount of Lumialza with a portion of the desired final volume of water.

To verify compatibility with other seed treatment products, pre-test tank mixtures to evaluate formulation and proper physical compatibility of products.

**SEED TREATMENT DIRECTIONS FOR USE**

Corn (Including Field, Sweet and Pop)	
Pests partially suppressed	Application Rate
Pin Nematode ( <i>Paratylenchus</i> spp.) Ring Nematode ( <i>Criconemella</i> spp.) Root Knot Nematode ( <i>Meloidogyne</i> spp.) Root Lesion Nematode ( <i>Pratylenchus</i> spp.) Spiral Nematode ( <i>Helicotylenchus</i> spp.) Stubby Root Nematode ( <i>Paratrichodorus</i> spp.)	3.0 mL per 80,000 seeds

**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-34185-002-E

Replaces: CN-34185-001-E

Specimen notes:

Update tank mix statement and address