

(Container)



GROUP 28 INSECTICIDE

**Lumiderm ONIQ
Insecticide Seed Treatment**

SUSPENSION

FOR SALE FOR USE ON CANOLA, RAPESEED AND OILSEED MUSTARD

COMMERCIAL AGRICULTURAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

ACTIVE INGREDIENT: Cyantraniliprole 625 g/L

Contains 5-Chloro-2-methyl-2H-isothiazol-3-one at 0.00056% and 2-Methyl-2H-isothiazol-3-one at 0.00019% as a preservative.

REGISTRATION NO 35545PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L to BULK

Special Use Restrictions

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.

Application to canola, rapeseed, and oilseed mustard must be completed by commercial treaters (facilities and mobile treaters) with closed transfer systems only.

Corteva Agriscience Canada Company

Suite 240, 115 Quarry Park Rd. SE
Calgary, AB
T2C 5G9
1-800-667-3852

TMTrademark of Corteva Agriscience and its affiliated companies.

PRECAUTIONS

- **KEEP OUT OF REACH OF CHILDREN**
- Workers involved in the clean-up of seed treating equipment must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, chemical resistant gloves, goggles or a face shield, chemical-resistant footwear, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.
- Workers (treaters, baggers, sewers, stackers and forklift drivers) must wear a long-sleeved shirt, long pants, chemical-resistant gloves, sock and shoes. For good hygiene practice, where dust handling systems are not in use, it is recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.
- 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.
- Follow best management practices to help minimize dust exposure to pollinators during planting of treated seed; refer to the complete guidance "Pollinator Protection: reducing risk from treated seed" on the Health Canada website (www.healthcanada.gc.ca/pollinators).

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.
- Toxic to bees. This product is systemic. However, bees are unlikely to be exposed to product residues in pollen and/or nectar resulting from seed treatment applications. When this product is applied and used according to label directions, risk to bees is expected to be negligible.
- **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.

LABELING OF TREATED SEED

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

- This seed has been treated with Lumiderm ONIQ Insecticide Seed Treatment which contains cyantraniliprole.
- Do not use for feed, food or oil processing.
- Store away from feeds and other foodstuffs.

- Workers handling or planting treated seed or working outside the cab must wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. For good hygiene practice, it is also recommended that workers wear a NIOSH_approved N95 (minimum) filtering facepiece (dust mask) that is properly fit tested.
- This product is toxic to aquatic organisms.
- Dispose of seed packaging in accordance with local requirements.

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 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. Store this product away from food or feed.

DISPOSAL

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 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.
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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

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2. Follow provincial or territorial instruction for any required additional cleaning of the container prior to its disposal.
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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.

(Booklet)



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GENERAL INFORMATION

Lumiderm ONIQ Insecticide Seed Treatment is a flowable suspension that is applied as a seed treatment for early season protection from flea beetle feeding damage for 28 to 35 days and early season protection from cutworm feeding damage in canola, rapeseed and oilseed mustard.

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.

CANOLA, RAPESEED, OILSEED MUSTARD

SITE	PEST	RATE mL of Lumiderm ONIQ Insecticide Seed Treatment per-100 kg seed	SPECIFIC DIRECTIONS
CANOLA, RAPESEED, OILSEED MUSTARD	Flea beetles	960 to 1600	The application rates for flea beetles will also provide early season protection from cutworm feeding damage. Use the higher rates in areas with high pest pressure, or where extended early season control is required.
	Cutworms	480 to 960	
Restrictions	Lumiderm ONIQ Insecticide Seed Treatment is for use in commercial seed treatment (facilities and mobile treaters) using a closed transfer system only. It is not for use in on-farm treating systems such as hopper-box or slurry-box applications just prior to planting. DO NOT use open transfer systems Apply only in areas with adequate ventilation or in areas that are equipped to remove mist or dust.		

Do not make a subsequent foliar application of any Group 28 insecticide for a minimum of 60 days after planting seed treated with Lumiderm ONIQ Insecticide Seed Treatment.

TANK MIX COMBINATIONS WITH COMMERCIAL SEED TREATMENTS FOR USE ON CANOLA, RAPESEED AND OILSEED MUSTARD ONLY

Lumiderm ONIQ Insecticide Seed Treatment may be tank mixed with Prosper^{EverGol} Seed Treatment, Helix Xtra Seed Treatment or Helix Vibrance Seed Treatment at labelled rates for early season control of flea beetles, early season protection from cutworm feeding damage, and control of diseases on the recommended tank mix partner labels.

SEED TREATMENT	RATE (mL product per 100 kg seed)	TARGET PESTS
Lumiderm ONIQ Insecticide Seed Treatment	640	Cutworms Flea beetles Seed and seedling diseases listed on tank mix partner labels
+	+	
Prosper ^{EverGol} Seed Treatment	1400	
OR	OR	
Helix Xtra Seed Treatment	1500	
OR		

Helix Vibrance Seed Treatment	OR 1500	
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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.

Seed Storage

Field and laboratory tests have demonstrated that application of Lumiderm ONIQ Insecticide Seed Treatment to canola, rapeseed and mustard 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 Lumiderm ONIQ Insecticide 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 Lumiderm ONIQ Insecticide Seed Treatment.

ROTATIONAL CROP RESTRICTIONS

Recommended Plant-Back Intervals (PBI) for Rotational Crops

PBI	CROPS
0 days	Crop Subgroup 1B (Root Vegetables, except sugar beet); Crop Subgroup 1C (Tuberous and Corm Vegetables); Crop Group 2 (Leaves of Root and Tuber Vegetables); Crop Group 3-07 (Bulb Vegetables); Crop Group 4 (Leafy Vegetables, except <i>Brassica</i> vegetables); Crop Group 5 (<i>Brassica</i> (Cole) Leafy Vegetables); Crop Group 6 (Legume Vegetables, Succulent or Dried); Crop Group 7 (Foliage of legume vegetables); Crop Group 8-09 (Fruiting Vegetables); Crop Group 9 (Cucurbit Vegetables); Crop Subgroup 13-07A (Caneberries); Crop Subgroup 13-07B (Bushberries); Crop Subgroup 13-07H (Low Growing Berries, except Strawberries); Crop Group 20 (Oilseeds); peanuts; strawberries
30 days	Crop Group 1A (Root and Tuber Vegetables); Crop Group 15 (Cereal grains); Crop Group 16 (Forage, fodder, and straw of cereal grains); Crop Group 17 (Grass forage, fodder, and hay); Crop Group 18 (Nongrass animal feeds: Forage, fodder, straw and hay)
365 days	Other crops

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Lumiderm ONIQ Insecticide Seed Treatment contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to Lumiderm ONIQ Insecticide Seed Treatment and other Group 28 insecticides. The resistant individuals may dominate the

insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Lumiderm ONIQ Insecticide Seed Treatment or other Group 28 insecticides with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting and record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Corteva Agriscience Canada Company at 1-800-667-3852.

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