

(Container Label)



**GROUP 28 INSECTICIDE**

## **Lumivia™ Insecticide Seed Treatment**

SUSPENSION

FOR SALE FOR USE ON CORN (Field, Seed, Pop)

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING  
COMMERCIAL-AGRICULTURAL

**ACTIVE INGREDIENT:** Chlorantraniliprole 625 g/L

Contains 5-Chloro-2-methyl-4-isothiazolin-3-one at 0.00056% and 2-Methyl-4-isothiazolin-3-one at 0.00019% as a preservative.

REGISTRATION NO 32154 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:** 1L- BULK

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.

### **Corteva Agriscience Canada Company**

2450, 215 – 2<sup>nd</sup> Street S.W.  
Calgary, Alberta  
T2P 1M4  
1-800-667-3852

™ Trademark of Corteva Agriscience and its affiliated companies.

For use in commercial seed treatment (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of Lumivia Insecticide Seed Treatment is permitted.

## PRECAUTIONS

- **KEEP OUT OF REACH OF CHILDREN**

- Wear long-sleeved shirt, long pants, chemical-resistant gloves and shoes plus socks while treating and applying, bagging/sewing/stacking and during cleanup and repair. 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.
- For use in commercial seed treatment (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of Lumivia™ Insecticide Seed Treatment is permitted.
- 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](http://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.
- Residues of chlorantraniliprole are persistent and may carryover. It is recommended that any products containing chlorantraniliprole not be used in areas treated with this product during the previous season.
- The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.
- Treated seed is toxic to birds.
- Toxic to birds. 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 Lumivia Insecticide Seed Treatment which contains chlorantraniliprole.
- Do not use for feed, food or oil processing.
- Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, chemical-resistant gloves and shoes plus socks when handling treated seed.

- This product is toxic to aquatic organisms.
- Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.
- Dispose of seed packaging in accordance with local requirements.
- Cover or incorporate spilled treated seeds.
- Toxic to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

#### **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 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.

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

#### **FOR DISPOSABLE CONTAINERS**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

#### **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)



**GROUP 28 INSECTICIDE**

## **Lumivia™ Insecticide Seed Treatment**

SUSPENSION

FOR SALE FOR USE ON CORN (Field, Seed, Pop)

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

COMMERCIAL-AGRICULTURAL

**ACTIVE INGREDIENT:** Chlorantraniliprole 625 g/L

Contains 5-Chloro-2-methyl-4-isothiazolin-3-one at 0.00056% and 2-Methyl-4-isothiazolin-3-one at 0.00019% as a preservative

REGISTRATION NO 32154 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:** 1L- BULK

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.

### **Corteva Agriscience Canada Company**

2450, 215 – 2<sup>nd</sup> Street S.W.

Calgary, Alberta

T2P 1M4

1-800-667-3852

™ Trademark of Corteva Agriscience and its affiliated companies.

For use in commercial seed treatment (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of Lumivia Insecticide Seed Treatment is permitted.

## GENERAL INFORMATION

Lumivia™ Insecticide Seed Treatment is a flowable suspension that is applied as a seed treatment for early season protection of corn (field, seed, pop) from feeding damage by wireworms, cutworms, armyworm (*Mythimna unipuncta*) and seedcorn maggot and larvae of Asiatic garden beetle, masked chafers, European chafer, May/June beetles, Japanese beetle.

## 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.

Lumivia Insecticide Seed Treatment is an insecticide seed treatment for use in commercial seed treatment (facilities and mobile treaters) with closed transfer only. No open transfer is permitted. It is not for use in on-farm treating systems such as hopper-box or slurry-box applications just prior to planting.

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

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

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

## CORN

SITE	PEST	RATE mL of Lumivia Insecticide Seed Treatment	SPECIFIC DIRECTIONS
Field corn, Seed corn, Pop corn	Cutworms Armyworm ( <i>Mythimna unipuncta</i> ) Seedcorn Maggot (suppression)	0.25 mg a.i./ seed	
	Wireworms  Larvae of Asiatic Garden Beetle, Masked Chafers, European Chafer, Japanese Beetle May/June Beetles (junebugs),	0.25 – 0.75 mg a.i./ seed	Use higher rates in areas with high pest pressure.

- Do not make a subsequent foliar application of any Group 28 insecticide for a minimum of 60 days after planting seed treated with Lumivia Insecticide Seed Treatment. If a foliar spray is required during this window it must be made with an insecticide other than Group 28.

## Seed Storage

Field and laboratory tests have demonstrated that application of Lumivia Insecticide Seed Treatment to corn 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 Lumivia 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 Lumivia Insecticide Seed Treatment.

### **TANK MIXING**

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.

### **PRECAUTIONS**

- **KEEP OUT OF REACH OF CHILDREN.**
- Wear long-sleeved shirt, long pants, chemical-resistant gloves and shoes plus socks while treating and applying, bagging/sewing/stacking and during cleanup and repair. 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.
- For use in commercial seed treatment (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of Lumivia Insecticide Seed Treatment is permitted.
- 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](http://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.

### **ENVIRONMENTAL PRECAUTIONS**

- Toxic to aquatic organisms.
- Residues of chlorantraniliprole are persistent and may carryover. It is recommended that any products containing chlorantraniliprole not be used in areas treated with this product during the previous season.
- The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.
- Treated seed is toxic to birds.
- Toxic to birds. 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 Lumivia Insecticide Seed Treatment which contains chlorantraniliprole.
- Do not use for feed, food or oil processing.
- Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, chemical-resistant gloves and shoes plus socks when handling treated seed.
- This product is toxic to aquatic organisms.
- Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.
- Dispose of seed packaging in accordance with local requirements.
- Cover or incorporate spilled treated seeds.
- Toxic to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that Lumivia Insecticide Seed Treatment contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to Lumivia Insecticide Seed Treatment and other Group 28 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are 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 Lumivia 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 that is effective on the target pest when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, 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.

**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 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.

**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 reuse this container for any other purpose.

**FOR DISPOSABLE CONTAINERS**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**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.

<sup>TM</sup>Trademark of Corteva Agriscience and its affiliated companies.  
All other products mentioned are trademarks of their respective companies.