



Lumivia™ CPL Insecticide Seed Treatment

GROUP	28	INSECTICIDE
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SUSPENSION

FOR SALE FOR USE ON CEREALS AND DRY LEGUME VEGETABLES

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

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 33335 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.

Production Agriscience Canada Company
P. O. Box 730
7398 Queen's Line
Chatham, Ontario
N7M 5L1
1-519-352-6350

For use in commercial and on-farm treating facilities.

GENERAL INFORMATION

Lumivia™ CPL Insecticide Seed Treatment is a flowable suspension that is applied as a seed treatment for early season protection of cereals and dry legume vegetables from feeding damage by wireworms, cutworms, armyworm (*Mythimna unipuncta*) and pea leaf weevil larvae.

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.

For use in commercial and on-farm treating facilities.

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.

CEREALS

SITE	PEST	RATE mL of Lumivia CPL Insecticide Seed Treatment	SPECIFIC DIRECTIONS
Wheat, Barley, Oats, Rye,	Cutworms and armyworms	8 - 24 mL product (5-15 g a.i.) / 100 kg seed	Use higher rates in areas with high pest pressure.
	Wireworms	24 – 40 mL product (15-25 g a.i.) / 100 kg 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 CPL Insecticide Seed Treatment. If a foliar spray is required during this window it must be made with an insecticide other than Group 28.

CROP SUBGROUP 6C: Dried Shelled Pea and Bean (except soybean)

SITE	PEST	RATE mL of Lumivia CPL Insecticide Seed Treatment	SPECIFIC DIRECTIONS
Bean (Lupinus spp., includes grain lupin sweet lupin, white lupin and white sweet lupin); Bean	Cutworms and armyworms	32-64 mL product (20-40 g a.i.) / 100 kg seed	Use higher rates in areas with high pest pressure

(Phaseolus spp., includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean and tepary bean); Bean (Vigna spp., includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea and urd bean); Broad bean (fava bean); Chickpea (garbanzo bean); Guar; Lablab bean (hyacinth bean); Lentil; Pea (includes field pea); Pigeon pea	Larvae of Pea leaf weevil	64-96 mL product (40-60 g a.i.) / 100 kg seed	Use higher rates in areas with high pest pressure
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- Do not make a subsequent foliar application of any Group 28 insecticide for a minimum of 60 days after planting seed treated with Lumivia CPL 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 CPL Insecticide Seed Treatment to wheat, barley, oats, rye and dry legume seeds will not negatively affect germination. However, due to seed quality and seed storage conditions beyond the control of Production 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 CPL 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 CPL Insecticide Seed Treatment.

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.
- When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.
- 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. 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 15-20 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.

For medical emergencies call 1-800-667-3852 (24 hours).

ENVIRONMENTAL HAZARDS

- 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 CPL 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 planting and handling treated seed. Gloves are not required when planting with a closed cab.
- 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 CPL Insecticide Seed Treatment contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to Lumivia CPL 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 Lumivia CPL 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 Production 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. To prevent contamination, 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 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 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.
5. 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.

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. 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-33335-001-E

Specimen Label Notes

Initial Release