Lumivia® CPL

INSECTICIDE SEED TREATMENT

On-farm treating

Best management practices

Lumivia® CPL insecticide seed treatment contains a new mode-of-action for early season protection from wireworm, cutworm, armyworm, seed corn maggot, and pea leaf weevil in cereals, lentils and pulse.

Active Ingredient: Chlorantraniliprole

Group 28: Anthranilic diamides

Unique Mode of Action: Fast-acting protection through muscle impairment

Formulation: Flowable Solution 5.21 lbs AI/gal (625 g AI/L)

Key Benefits

- Outstanding early season insect protection for cereals, pulse, and lentils for uniform and healthy plant establishment
- Unique mode-of-action with systemic uptake and translocation
- Favorable environmental profile
- Easy to apply for on-farm or retail treating

Application Rates

Cereals: 0.5 – 0.75 fl oz/CWT (20 – 30 g AI/100kg)

Lentil, Pea and Dry Bean by planting rate:
75-180 lbs of seed/A: 0.5 – 0.74 fl oz/CWT (20 – 30 g AI/100kg)
< 75 lbs of seed/A: 0.75 – 1.75 fl oz/CWT (31 – 71 g AI/100kg)

SEED APPLIED TECHNOLOGIES

CORTEVA™ agriscience

Application Process

The quality of the seed treatment application process is dependent on:

- The quality of the seed prior to treatment (seed integrity, dustiness)
  - » Cleaner seed allows the treatment to adhere better. It also reduces treater buildup and the frequency of equipment cleaning.
- Composition and quality of the seed treatment products
- The application rate on the seed
- Conditions such as seed, product and air temperature or air humidity
  - » Seed acclimated to air temp/humidity will be easier to treat and dry quicker
- The application equipment

Preparation

- Applicators should read and understand all product label directions and precautions, Safety Data Sheets (SDS) and any supplemental manufacturer's recommendations for all components of the treating recipe.
- Reference and use required PPE as indicated by equipment manufacturers, as well as seed treatment product labels
- Verify treating equipment is capable of accurately and uniformly applying the chosen seed treatment product or recipe to the target crop seed
- Ensure dust and particles are removed from the seed to reduce build up in seed treating equipment
- When possible, allow seed to acclimate to air temperature and humidity prior to treating. This will make treating easier and will allow the seed to dry quicker.
- Establish and use documented procedures for handling, proper disposal of unused slurry components, empty packaging materials, waste, and treated seed

Tips

Wheat or similar cereals: Consider using a higher volume of water to uniformly coat the seed and minimize dust. Cereal seeds often exhibit high porosity of the seed coat and application quality can be improved by using additional water volume.

Dry bean and pea: Application will require minimal water and may take longer to dry due to hard exterior shell of seed coat.

Water volume: In general, water volume will need to be adjusted based on seed treatment recipe, seed type, and environmental conditions.

Treating

1. Properly calibrate/adjust treating equipment based on manufactures guidance for new seed treatment recipes.
2. Prepare and apply a water-based slurry, ensuring to include a colorant per EPA requirements: 40 CFR 153.155(b)(1).
3. Monitor seed flow, tackiness, and appearance of seed during treating process and adjust equipment as necessary.
4. Monitor treatment buildup on equipment and clean as needed.
5. Establish and follow treater cleanup procedures.

Treated Seed Storage:

Treat seed as close to planting as possible to minimize the need to store. If storage is required, always follow the label's instruction for storage. In general, treated seed should be stored in a cool (less than 60° F), dry location that is well ventilated and protected from direct sunlight and precipitation.

Handling and Transporting Treated Seed

- Avoid personal exposure to dust when transferring bulk treated seed and filling or opening/emptying packaged treated seed.
- In the event of a spill, collect treated seed and dispose of properly to minimize exposure to people, animals and the environment.

Restrictions

- DO NOT exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of seeding density.
- DO NOT apply more than 0.2 lb ai of chlorantraniliprole-containing products per acre per calendar year.
- Seed treated with Lumivia CPL must be labeled according to Federal Seed Act (FSA) treated seed labeling requirements. All Lumivia CPL seed treatment application must be done so in accordance with product label guidelines. This includes the use of proper handling and transport procedures, planting practices, storage, and disposal procedures.

Additional Resources

The Guide to Seed Treatment Stewardship:
https://seed-treatment-guide.com/wp-content/uploads/2014/12/ASTA-Seed-Guide-Application.pdf

For more information on Lumivia® CPL insecticide seed treatment, please contact your local Corteva Agriscience territory manager or call **800-258-3033**.

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