

Specimen Label

GROUP

5

INSECTICIDE



Lumiverd™

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An insect control product for use in commercial seed coating as seed treatment to control seedcorn maggot and onion maggot.

For Commercial Seed Treatment Only

Active Ingredient:

spinosad:

(a mixture of spinosyn A

and spinosyn D) 80%

Other Ingredients..... 20%

Total 100%

Contains 80% active ingredient on a weight basis.



Listed by the Organic Materials Review Institute (OMRI) for use in organic production.

Precautionary Statements

Hazard to Humans and Domestic Animals

EPA Reg. No. 62719-282

Keep Out of Reach of Children

CAUTION

Causes Moderate Eye Irritation

Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Mixers/loaders must wear:

- A NIOSH-approved half-face cartridge or canister respirator or powered air-purifying respirator (PAPR) fitted with a dust/mist filter only or with an organic vapor removing filter with a dust/mist filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

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.

First Aid

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 center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This product is toxic to bees exposed to treatment for 3 hours following treatment. Do not apply this pesticide to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period. This product is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on the label.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

Not for on-farm use. Not for use on agricultural establishments in hopper-box, planter-box, slurry-box, or other seed treatment applications at or immediately before planting.

Commercial Seed Treatment

Lumiverd™ insect control is designed to be used as a commercial seed treatment as a component in seed coating blends to protect the germinating seeds and seedlings. Use the required amount of Lumiverd in the seed coating mix to achieve correct rates of active ingredient for the crop seed being treated in the final product. Apply using suitable seed coating equipment to ensure each seed is uniformly coated. Uniform application to seed is necessary to ensure seed safety and best insect control.

Crop (Seeds)	Pests	Lumiverd (mg ai/ seed)	Lumiverd (lb ai/100 lb seed)	Maximum Seasonal Application Rate-Seed Use (lb ai/ acre)	Maximum Seasonal Application Rate All Uses (lb ai/ acre) ¹
bulb vegetables (crop group 3) ² (excluding dry bulb onion)	onion maggot	0.15	3.96 – 6.61	0.99	0.99
dry bulb onion	seedcorn maggot	0.2	5.29 – 6.89	0.27	0.45
cantaloupe		0.5 – 0.75	2.31 – 3.47	0.1	
cucurbit vegetables (crop group 9) ⁴ (excluding cantaloupe, pumpkin, watermelon, winter squash)			0.70 – 3.77	0.11	
pumpkin			0.83 – 1.24	0.05	
winter squash			0.55 – 0.83	0.03	
watermelon			1.10 – 1.65	0.07	

¹The maximum seasonal application rate is the total of all methods of application – soil, foliar, and seed treatment.

²Bulb vegetables (crop group 3) including dry bulb onion, garlic, great-headed (elephant) garlic, green onion, leek, shallot, Welsh onion

⁴Cucurbit vegetables (crop group 9) including cucumber, edible gourds, muskmelons (cantaloupe, honeydew, etc.), pumpkin, summer squash, watermelon, winter squash

Specific Use Precautions:

- Do not mix the seed and product with bare hands.
- Seed should be sound and well cured prior to treatment.
- Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of all excess treated seeds and seed packaging by burial away from bodies of water.

Specific Use Restrictions:

- Regardless of formulation or method of application, apply no more than 0.45 lb ai (204 g) spinosad per acre per season with soil, foliar and seed treatment uses for the following crops: crops in crop group 3 (see table footnote 2 above for specific crops in crop group), crop group 9 (see table footnote 4 above for specific crops in crop group).
- Follow restrictions in the crop section of the label for maximum number of foliar applications allowed per season.
- For use only in commercial seed treatment facilities.
- This product is not intended for use on agricultural establishments in hopper-box, planter-box, or other seed treatment applications at or immediately before planting.
- Do not use treated seed for human consumption, as feed for livestock or poultry, or for oil purposes.
- Label treated seed as follows: "THIS SEED HAS BEEN TREATED WITH SPINOSAD at _____ mg ai/seed. DO NOT USE FOR FOOD, FEED, OR OIL. STORE AWAY FROM FOOD AND FOODSTUFF. **Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.** Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated."

Note: The rate of spinosad in mg ai/seed must be included on the label of the treated seed.

- Treated seed must be planted into the soil at least 1/2 inch deep using appropriate commercial seeding equipment. To achieve the optimum depth required for maximum germination, refer to the specific planting directions for use on labels of treated seed. To minimize potential exposure to nontarget wildlife, cover or collect any seeds treated with Lumiverd that may have spilled during planting or loading.
- The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals. Refer to 21 CFR Part 2.25. Any dye added to treated seed must be cleared for use under 40 CFR Part 180.1001.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original container only.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Nonrefillable rigid containers 5 lb or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable nonrigid containers any size:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable rigid containers larger than 5 lb:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water

Storage and Disposal (Cont.)

and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable rigid containers larger than 5 lb:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Terms and Conditions of Use

To the extent permitted by law, if terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

Warranty Disclaimer

To the extent permitted by law, Corteva Agriscience warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Corteva Agriscience MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Corteva Agriscience or the seller. To the extent permitted by law, all such risks shall be assumed by buyer.

Limitation of Remedies

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Corteva Agriscience's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

Corteva Agriscience shall not be liable for losses or damages resulting from handling or use of this product unless Corteva Agriscience is promptly notified of such loss or damage in writing. In no case shall Corteva Agriscience be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Corteva Agriscience or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or Limitation of Remedies in any manner.

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9330 Zionsville Road
Indianapolis, IN 46268

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Revisions:

- Added use on bulb vegetables, cantaloupe, cucurbit vegetables, pumpkin, winter squash, and watermelon.