



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 14, 2022

Kasia O'Donnell  
Regulatory Affairs Associate  
Certis USA, LLC  
9145 Guilford Road  
Suite 175  
Columbia, MD 21046

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Addition of  
alternate brand name  
Product Name: Lepinox® WDG  
EPA Registration Number: 70051-89  
EPA Receipt Date: 06/28/2022  
Action Case Number: 00373553

Dear Ms. O'Donnell:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The alternate brand name Lepinox® 15 WG has been added to the product's records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

If you have any questions, please contact Michael Glikes by phone at (202) 566-1461 or via email at [glikes.michael@epa.gov](mailto:glikes.michael@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'Alan Reynolds', with a stylized flourish at the end.

Alan Reynolds, Team Leader  
Emerging Technologies Branch  
Biopesticides and Pollution  
Prevention Division (7511M)  
Office of Pesticide Programs

# Lepinox® WDG

INSECTICIDE

{Alternate Brand Names: See Last Page for List of ABNs}

Lepinox® WDG water dispersible granule is a biological insecticide for the control of lepidopteran pests.

**Active Ingredient:**

<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i> strain EG7826 solids, spores and Lepidopteran active toxins*	40.0%
<b>Other Ingredients:</b>	60.0%
<b>Total</b>	100.0%

\*The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN  
WARNING / AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Manufactured by  
Certis USA, L.L.C.  
9145 Guilford Road, Suite 175  
Columbia, MD 21046



Net Contents:  
5 Pounds  
LOT NO: \_\_\_\_\_

EPA Reg. No. 70051-89  
EPA Est. No.

### NOTIFICATION

70051-89

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

07/14/2022

#### FIRST AID

**If in eyes:** Hold eyes 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 further treatment advice.  
Hot Line Number: 1-800-255-3924

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear goggles or faceshield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

##### Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Shoes plus socks
- Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.
- Protective eyewear

Follow the 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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

This product must not be applied aerially within 1/4 mile of any habitats of endangered or threatened Lepidoptera. No manual application can be made within 300 ft. of any threatened or endangered Lepidoptera.

Do not contaminate water when disposing of equipment washwaters.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### Aerial Application

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this section only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, waterproof gloves, protective eyewear, shoes plus socks.

**Preharvest Interval:** Lepinox® WDG may be applied to the crops listed in the APPLICATION RATE TABLE at any time, up to and on the day of harvest.

**Mode of Action:** After consuming a lethal dose of Lepinox® WDG, larvae will cease to feed, but may remain alive on foliage for several days before disappearing. Immediately after ingestion of Lepinox® WDG, larvae begin to move slowly, become discolored, shrivel and blacken prior to death.

#### MIXING INSTRUCTIONS

Lepinox® WDG may be applied with conventional ground, aerial or hand held application equipment with quantities of water sufficient to provide thorough coverage of infested plants. Do not apply this product through any type of irrigation system. To obtain a suitable mixture with water, add enough water to allow maximum agitation. With agitator running, slowly add in the Lepinox® WDG. Continue agitation. Add remainder of water and other spray materials and agitate until mixed. Maintain suspension while loading and spraying. Do not mix more Lepinox® WDG than can be used in a 12-hour period. Rinse and flush spray equipment thoroughly following each use. Do not contaminate water when disposing of equipment washwaters.

In order to make proper decisions on application rates to be used, follow the recommendations in the APPLICATION RATE TABLE and these guidelines:

#### APPLICATION INSTRUCTIONS

Lepinox® WDG is a biological insecticide for use against the lepidopteran larvae listed in the APPLICATION RATE TABLE. Larvae must consume deposits of Lepinox® WDG to be affected. Always follow these directions:

- Make applications when larvae are still small (early instars <1/2" in length) and actively feeding on foliage or other plant parts.
- Make applications before noticeable foliar damage occurs.
- Thorough spray coverage is essential for good insect control.
- For ground applications, directed drop nozzles should be used for certain vegetable crops. For orchard applications, a spray volume of 100 gallons per acre and treatment of each orchard row is recommended.
- Do not use screens smaller than 50 mesh.
- For ground applications, use a minimum spray volume of 20 gallons per acre. For aerial applications, use a spray volume of at least 5 gallons per acre. (See cotton and soybeans for special instructions.)
- When insect infestations are heavy, use the higher label rates, shorten the spray interval, and/or use larger total spray volume to improve spray coverage.

- Applications should be repeated at an interval sufficient to maintain control, depending upon plant growth, insect pressure and weather conditions after spraying.
- Local conditions may affect the use of Lepinox® WDG. Consult your State Agricultural Extension Specialist for specific recommendations related to local crop protection problems.
- Spray water/spray tank solutions should not exceed pH 8.0. If necessary, buffer water to near neutral pH.

**HAND-HELD EQUIPMENT**

When using hand-held equipment, mix 4 teaspoons per gallon of water or 3 pounds per 100 gallons of spray solution. Spray to wet, but not to runoff.

**TANK-MIX**

Lepinox® WDG may be tank mixed with contact pesticides. Combinations of Lepinox® WDG with commonly used insecticides, fungicides, or other spray tank adjuvants are generally not deleterious to performance. It is advisable to test physical compatibility by mixing all components in small containers in proportionate quantities prior to mixing in spray tank. This product cannot be mixed with any product containing a label prohibition against such mixing. No label dosage rates should be exceeded. Application must be made in accordance with the more restrictive of label limitation and precautions.

For improved durability of spray deposits, a spreader/sticker approved for use on growing crops may be used for hard-to-wet crops such as cole crops.

**APPLICATION RATE TABLE**

<b>I. VEGETABLE AND COLE CROPS</b>		
<b>Crops such as:</b>		<b>Insect Pest</b>
Artichokes	Kale	Alfalfa looper
Arugala	Kohlrabi	Armyworm
Asparagus	Leeks	Artichoke plume moth
Beans	Lentils	Beet armyworm
Beets	Lettuce (Head, Leaf, Romaine)	Cabbage budworm
Bok Choy	Malanga	Cabbage looper
Broccoli	Melons (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc.)	Celery leaf-tier
Brussels sprouts	Napa	Corn earworm
Cabbage	Okra	Cross-striped cabbageworm
Cardoni	Onions	Diamondback moth
Carrots	Parsley	European corn borer
Cauliflower	Parsnips	Fall Armyworm
Celeriac	Peas	Green cloverworm
Celery	Peppers	Imported cabbageworm
Chick peas	Potatoes	Melonworm
Chicory	Pumpkins	Omnivorous leafroller
Chinese cabbage	Radishes	Pickleworm
Collards	Rutabaga	Rindworm complex
Cucumber	Salsify	Saltmarsh caterpillar
Cucurbits	Shallots	Soybean looper
Dry bulb onions	Soybean foliage	Tobacco budworm
Eggplants	Spinach	Tomato fruitworm
Escarole	Squash	Tomato hornworm
Endive	Sugar Beets	Tomato pinworm

Garlic	Sweet potatoes	Velvetbean caterpillar
Green onions	Swiss Chard	Yellowstriped armyworm
Greens (Beets, China, Dandelion, Mustard, Turnip)	Tomatoes	
Horseradish	Turnips	
<b>Rate/Acre: 1.0-2.0 pounds</b>		

## II. HERBS AND SPICES

Crops such as:	Insect Pest
Basil	Alfalfa looper
Chives	Armyworm
Cilantro	Diamondback moth
Dill	European corn borer
Oregano	Green cloverworm
Peppermint	Imported cabbageworm
Thyme	Loopers
	Saltmarsh caterpillar
<b>Rate/Acre: 1.0-2.0 pounds</b>	

## III. PASTURE AND HAY CROPS

Crops such as:	Insect Pest
Alfalfa (hay & seed)	Alfalfa caterpillar
Pasture (grasses & hay)	Armyworm
Silage	Beet Armyworm*
	European skipper
	Fall Armyworm
	Loopers*
	Webworm
	Yellowstriped armyworm*
<b>Rate/Acre: 1.0-2.0 pounds</b>	
* Product should be applied when early instar larvae first appear. If infestation persists, make second application 7-10 days later. Combination of Lepinox® WDG with a contact insecticide is recommended for control of 4 <sup>th</sup> and 5 <sup>th</sup> instar larvae.	

## IV. FRUITS, NUTS AND VINE CROPS

Crops such as:	Insect Pest	
<b>Pome and Stone Fruit Trees:</b>	Cankerworm (Spring and Fall)	Oriental fruit moth
Apples	Cherry fruitworm	Pandemis leafroller
Apricots	Eastern tent caterpillar	Peach twig borer
Cherries	Fall webworm	Redbanded leafroller
Nectarines	Fruittree leafroller	Redhumped caterpillar
Peaches	Green fruitworm	Tortrix moth (Orange and Garden)
Pears	Gypsy moth	Tufted apple budmoth
Plums	Navel orangeworm	Variiegated leafroller
Prunes	Obliquebanded leafroller	Walnut caterpillar
Quince	Omnivorous leafroller	Western tent caterpillar
<b>Nut Trees:</b>	Citrus cutworm	Omnivorous leafroller
Almonds	Filbert leafroller	Pecan nut casebearer
Chestnuts	Filbert webworm	Peach twig borer

Filberts Pecans Pistachios Walnuts	Fruittree leafroller Hickory shuckworm Navel orangeworm Obliquebanded leafroller	Redhumped caterpillar Roughskinned cutworm Western tent caterpillar
<b>Citrus</b>	Amorbia Citrus cutworm Fruittree leafroller	Omnivorous leafroller Orangedog
<b>Small Fruit and Berries:</b> Blackberries Blueberries Boysenberries Cranberries Currants Longanberries Raspberries Strawberries	Achema sphinx moth Armyworm Blackheaded fireworm Blueberry leafroller Cranberry girdler Fruittree leafroller Grape berry moth Gypsy moth Loopers	Obliquebanded leafroller Omnivorous looper Tobacco budworm
<b>Grapes:</b>	Cherry fruitworm Grape berry moth Grape leafroller Grapeleaf skeletonizer Green fruitworm	Omnivorous leafroller Orange tortrix Saltmarsh caterpillar Yellowstriped armyworm
<b>Tropical and Other Fruit:</b> Avocados	Amorbia Loopers Orange tortrix	Omnivorous leafroller Omnivorous looper Spanworm
Bananas	Banana skipper	
Kiwi	Omnivorous leafroller	
Persimmons, Pomegranate	Citrus cutworm Fall webworm Filbert webworm	Omnivorous leafroller Redhumped caterpillar Tent caterpillar
Pineapple	Gummosos-Batrachedra commosae	Thecla-Thecia basilides
Tropical fruits	Hornworms Leafrollers	Loopers Omnivorous leafroller
<b>Rate/Acre: 1.0-2.0 pounds</b>		

<b>V. FIELD CROPS</b>		
<b>Crops such as:</b>	<b>Insect Pest</b>	
Canola/Rape Seed Evening Primrose Meadow foam	Armyworm Diamondback moth	Imported cabbageworm Loopers
Corn	Armyworm	Fall armyworm



(Field, Sweet, Popcorn, Seed)	European corn borer	Southwestern corn borer
Cotton*	Beet armyworm Cabbage looper Bollworm Cotton leaf perforator Fall armyworm	Saltmarsh caterpillar Soybean looper Tobacco budworm Yellowstriped armyworm
Hops	Armyworm Loopers Obliquebanded leafroller	Omnivorous leaftier Spotted cutworm
Jojoba	Looper ( <i>Anacamptodes</i> spp.)	
Peanuts	Fall armyworm Green cloverworm Loopers	Podworm Velvetbean caterpillar
Rice	Armyworm Green cloverworm Loopers	Saltmarsh caterpillar Velvetbean caterpillar
Safflower	Armyworm Loopers	Saltmarsh caterpillar
Small Grains (Barley, Oats, Rye, Wheat, etc.)	Armyworm Loopers	
Sorghum	European corn borer Fall armyworm	Saltmarsh caterpillar Velvetbean caterpillar
Soybeans	Green cloverworm Soybean looper	Velvetbean caterpillar
Sunflowers	Banded sunflower moth Beet armyworm Headmoth	Loopers Sunflower moth
Tobacco	Tobacco budworm Tobacco hornworm Loopers	
<p><b>Rate/Acre: 1.0-2.0 pounds</b></p> <p>* Use of Lepinox® WDG in integrated pest management programs:</p> <ul style="list-style-type: none"> <li>• Lepinox® WDG can be used alone to control light to moderate populations of newly hatched worms at the rates specified above. Repeat treatments at four to five day intervals or as long as necessary until results are acceptable. A banded application can be applied at 0.5 lb/acre.</li> <li>• For control of bollworm and tobacco budworm, Lepinox® WDG can be mixed with conventional chemicals, such as carbamates, organophosphates, pyrethroid, or spinosads, in accordance with the more restrictive of label limitations and precautions. No label dosage rates should be exceeded. The product cannot be mixed with any product containing a label prohibition against such mixing.</li> <li>• Treat only 1<sup>st</sup> and 2<sup>nd</sup> instar larvae ¼" or less in length.</li> <li>• For ground applications, use a minimum of 5 gallons of water per acre. For aerial applications, use a minimum of 3 gallons of water per acre.</li> <li>• Short residual contact action materials may be tank mixed with Lepinox® WDG to control</li> </ul>		

secondary pests such as boll weevil, aphid, and lygus bugs.

- Under low level infestations (less than 5% insect or egg infestation per acre), Lepinox WDG can be used at 0.25 pounds per acre alone or in combination with foliar fertilizers or other approved applications.

\*\* For ground applications, use a minimum of 5 gallons of water per acre. For aerial applications, use a minimum of 3 gallons of water per acre.

**VI. COMMERCIAL FLOWERS AND ORNAMENTAL PLANTS**

<b>Crops such as:</b>	<b>Insect Pest</b>	
Bedding plants	Armyworm	Loopers
Flowers (Greenhouse and Field)	Azalea moth	Oleander moth
Greenhouse Ornamentals	Beet armyworm	Omnivorous leafroller
Greenhouse Vegetables	Diamondback moth	Omnivorous looper
Container Stock	Ello moth (hornworm)	Tobacco budworm
	Florida fern caterpillar	
	lo moth	
<b>Rate/Acre: 1.0-2.0 pounds</b>		

**VII. FOREST, SHADE TREE AND NURSERY STOCK**

<b>Crops such as:</b>	<b>Insect Pest</b>	
Forest trees	Bagworm	Pine butterfly
Shade trees	Blackheaded budworm	Redhumped caterpillar
Nursery trees	Browntail moth	Saddleback caterpillar
	California oakworm	Saddle prominent caterpillar
	Douglas fir tussock moth	Spring and Fall cankerworm
	Elm spanworm	Spruce budworm
	Fall webworm	Tent caterpillar
	Fruittree leafroller	Tortrix
	Greenstriped mapleworm	Western tussock moth
	Gypsy moth	
	Jack pine budworm	
	Mimosa webworm	
<b>Rate/Acre: 1.0-2.0 pounds</b>		

**VIII. TURF**

<b>Crop such as:</b>	<b>Insect Pest</b>	
Turf	Armyworms	Sod webworm
	Fall Armyworm	Tropical sod webworm
<b>Rate/Acre: 1.0-2.0 pounds</b>		

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a cool, dry place inaccessible to children.

**Pesticide Disposal:** Do not contaminate water when disposing of equipment washwaters. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container. Do no reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY**

Certis USA, L.L.C. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

Lepinox is a trademark of Certis USA  
U.S. Patent No. 5080897, 5441884, 5650308, 5776447, 5843744  
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**Optional Label Elements:**



{Alternate Brand Names:}  
Lepinox® 15 WG