

LEPINOX® WDG water-dispersible granule insecticide is a biological insecticide for the control of lepidopterous pests.

EPA REG. No. 55638-37-279 EPA EST. No. 67367-MN-001

Active Ingredient:

Bacillus thuringiensis subspecies kurstaki EG7826
Lepidopteran active toxin
Inert Ingredients
TOTAL

2.4 oz. active ingredient per pound.

Potency: 52,500 fall armyworm units per milligram of product. Potency units should not be used to adjust use rates beyond those specified in the DIRECTIONS FOR USE section.

KEEP OUT OF REACH OF CHILDREN

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).

STATEMENT OF PRACTICAL TREATMENT

If In Eyes: Hold eyelid open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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
- Protective eyewear

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.

Distributed by:



FMC Corporation Agricultural Products Group Philadelphia PA 19103

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.

Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

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: Completely empty bag into application equipment. Then 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.

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.

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, shoes plus socks, and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to the uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

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.

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) 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.
- 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.
- For crops such as Fruits, Nuts and Vines, applications are often timed to stage of development and recommendations from local Extension personnel should always be followed.
- 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

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 a small container 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 rate 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

I. VEGETABLES & COLE CROPS (Fresh and Processed)

Crop such as:		Insect Pest
Artichokes Arugala Asparagus Beans Beets Bok Choy Broccoli Brussels sprouts Cabbage Cardoni Carrots Cauliflower Celerac Celery Chick peas Chicory Chinese cabbage Collards Cucumber Cucurbits Dry bulb onions Eggplants Escarole Endive Garlic Green onions Greens (Beets, China, Dandelion, Mustard, Turnip) Horseradish Kale Kohlrabi Leeks Lentils Lettuce (Head, Leaf, Romaine) Malanga	Melons (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc.) Napa Okra Onions Parsley Parsnips Peas Peppers Potatoes Pumpkins Radishes Rutabaga Salsify Shallots Soybean foliage Spinach Squash Sugar beets Sweet potatoes Swiss chard Tomatoes Turnips	Alfalfa looper Armyworm Artichoke plume moth Beet armyworm Cabbage budworm Cabbage outworm Cabbage webworm Celery leaftier Corn earworm Cross-striped cabbageworm Diamondback moth European corn borer Fall armyworm Green cloverworm Imported cabbageworm Melonworm Omnivorous leafroller Pickleworm Rindworm complex Saltmarsh caterpillar Soybean looper Tobacco budworm Tomato fruitworm Tomato fruitworm Tomato pinworm Velvetbean caterpillar Yellowstriped armyworm

Rate/Acre: 1.0 - 2.0 pounds

II. HERBS & SPICES

Crop such as:	Insect Pest
Basil Chives Cilantro Dill Oregano Peppermint Thyme	Alfalfa looper Armyworm Diamondback moth European corn borer Green cloverworm Imported cabbageworm Loopers Saltmarsh caterpillar

Rate/Acre: 1.0 - 2.0 pounds

III. PASTURE & HAY CROPS

Crop such as:	Insect Pest
Alfalfa (Hay & Seed) Pasture (Grasses & Hay) Silage	Alfalfa caterpillar Armyworm Beet armyworm* European skipper Fall armyworm Loopers* Webworm Yellowstriped armyworm*

Rate/Acre: 1.0 - 2.0 pounds

*Product should be applied when early instar larvae first appear. If infestation persists, make a second application 7-10 days later. Combination of LEPINOX WDG with a contact insecticide is recommended for control of 4th and 5th instar larvae.

IV. FRUITS, NUT & VINE CROPS

Crop such as:	Insect Pest
Pome and Stone	Cankerworm (Spring & Fall)
Fruit Trees:	Cherry fruitworm
Apples Apricots	Eastern tent caterpillar Fall webworm
Cherries	Fruittree leafroller
Nectarines	Green fruitworm
Peaches	Gypsy moth
Pears	Navel orangeworm
Plums	Obliquebanded leafroller
Prunes	Omnivorous leafroller
Quince	Oriental fruit moth
	Pandemis leafroller Peach twig borer
	Redbanded leafroller
	Redhumped caterpillar
	Tortrix moth (Orange & Garden)
	Tufted apple budmoth
	Variegated leafroller
	Walnut caterpillar
	Western tent caterpillar
Nut Trees:	Citrus cutworm
Almonds	Filbert leafroller
Chestnuts	Filbert webworm
Filberts Pecans	Fruittree leafroller Hickory shuckworm
Pecans Pistachios	Navel orangeworm
Walnuts	Obliguebanded leafroller
	Omnivorous leafroller
	Pecan nut casebearer
	Peach twig borer
	Redhumped caterpillar
	Roughskinned cutworm
	Western tent caterpillar
Citrus	Amorbia
	Citrus cutworm
	Fruittree leafroller
	Omnivorous leafroller
0	Orangedog
Small Fruit and Berries:	Achema sphinx moth
Blackberries	Armyworm Blackheaded fireworm
Blueberries	Blueberry leafroller
Boysenberries	Cranberry girdler
Cranberries	Fruittree leafroller
Currants	Grape berry moth
Loganberries	Gypsy moth
Raspberries	Loopers
Strawberries	Obliquebanded leafroller
	Omnivorous looper Tobacco budworm
Croppo	
Grapes	Cherry fruitworm Grape berry moth
	Grape leaffolder
	Grapeleaf skeletonizer
	Green fruitworm
	Omnivorous leafroller
	Orange tortrix
	Saltmarsh caterpillar
- · · ·	Yellowstriped armyworm
Tropical and	Amorbia
Other Fruit: Avocados	Loopers Orongo tortriv
Avocados	Orange tortrix Omnivorous leafroller
	Omnivorous looper
	Spanworm
Bananas	Banana skipper
Kiwi	Omnivorous leafroller
Persimmons	Citrus cutworm
Pomegranate	Fall webworm
i onogranato	Filbert webworm
	Omnivorous leafroller
	Redhumped caterpillar
	Tent caterpillar
Pineapple	Gummosos-Batrachedra
	commosae
	Thecla-Thecla basilides
Tropical fruits	Hornworms
Tropical fruits	Hornworms Leafrollers
Tropical fruits	Hornworms

Rate/Acre: 1.0 - 2.0 pounds

V. FIELD CROPS

Crop such as:	Insect Pest
Canola/Rape Seed Evening Primrose Meadow Foam	Armyworm Diamondback moth Imported cabbageworm Loopers
Corn (Field, Sweet, Popcorn, Seed)	Armyworm European corn borer Fall armyworm Southwestern corn borer
Cotton	Beet armyworm Bollworm Cabbage looper Cotton leaf perforator Fall armyworm Saltmarsh caterpillar Soybean looper Tobacco budworm Yellowstriped armyworm
Hops	Armyworm Loopers Obliquebanded leafroller Omnivorous leaftier Spotted cutworm
Jojoba	Looper (Anacamptodes 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 Headworm Saltmarsh caterpillar Velvetbean caterpillar
Soybeans	Beet armyworm Fall armyworm Green cloverworm Podworm Soybean looper Velvetbean caterpillar
Sunflowers	Banded sunflower moth Beet armyworm Headmoth Loopers Sunflower moth
Tobacco	Tobacco budworm Tobacco hornworm Loopers

Rate/Acre: 1.0 - 2.0 pounds

VI. FOREST TREES

Crop such as:	Insect Pest
Forest Trees	Bagworm Blackheaded budworm Browntail moth California oakworm Cankerworm (Spring & Fall) Douglas fir tussock moth Elm spanworm Fall webworm Fruittree leafroller Greenstriped mapleworm Gypsy moth Jack pine budworm Mimosa webworm Pine butterfly Redhumped caterpillar Saddleback caterpillar Saddleback caterpillar Spruce budworm Tent caterpillar Tortrix Western tussock moth

Rate/Acre: 1.0 - 2.0 pounds

WARRANTY AND CONDITIONS OF SALE

FMC warrants that this product conforms to the description on this label and is reasonably fit for the purposes stated on this label when used in accordance with the directions on this label under normal conditions of use.

FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

If this product is defective, Buyer's exclusive remedy shall be the replacement of the product, or if replacement is impracticable, refund of the purchase price. In no case will FMC be liable for incidental, consequential or special damages resulting from the handling, storage or use of this product.

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