

BIOINSECTICIDE

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

100.0%

Active Ingredient:

Bacillus thuringiensis subspecies kurstaki strain EG7841 solids,	
spores and Lepidopteran active toxins*	40.0%
Other Ingredients:	60.0%

Total

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

KEEP OUT OF REACH OF CHILDREN CAUTION

Net Contents: 5 U.S. Pound Bag

EPA Reg. No. 70051-86 EPA Est. No. 62171-MS-001

Lot No.:

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



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

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE):

- Applicators and other handlers must wear:
- Long sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- 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.

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. Do not contaminate water when disposing of equipment washwaters.

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

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 4 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: CRYMAX 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 CRYMAX, larvae will cease to feed, but may remain alive on foliage for several days before disappearing. Immediately after ingestion of Crymax larvae begin to move slowly, become discolored, shrivel and blacken prior to death.

MIXING INSTRUCTIONS

CRYMAX 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 CRYMAX. Continue agitation. Add remainder of water and other spray materials and agitate until mixed. Maintain suspension while loading and spraying. Do not mix more CRYMAX than can be used in a 24-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 Aerial Application

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

CRYMAX is a biological insecticide for use against the lepidopteran larvae listed in the APPLICATION RATE TABLE. Larvae must consume deposits of CRYMAX 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 CRYMAX. 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 2 teaspoons per gallon of water or 1-1/2 pounds per 100 gallons of spray solution. Spray to wet, but not to runoff.

TANK MIX

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

Rate/Acre: 0.5 - 2.0 pounds

Recommended rate is 1.0 - 1.5 pounds/acre unless tank-mixed with contact insecticide.

** CRYMAX will control Bt resistant and susceptible diamondback moth *** All crops

II. HERBS AND SPICES	
Crop:	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: 0.5 - 2.0 pounds

III. PASTURE AND HAY CROPS

Crop:	Insect Pest
Alfalfa (hay & seed) Pasture (grasses & hay) Silage	Alfalfa caterpillar Armyworm Beet armyworm* European skipper Loopers* Webworm Yellowstriped armyworm*

Rate/Acre: 0.5 - 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 CRYMAX with contact insecticide is recommended for control of 4th and 5th instar larvae.

IV. FRUIT, NUT AND VINE CROPS

Crop:	Insect Pest		
Pome and Stone Fruit Trees: Apples Apricots Cherries Nectarines Peaches Pears Plums Prunes Quince	Cankerworm (Spring & Fall) Cherry fruitworm Eastern tent caterpillar European grapevine moth* Fruittree leafroller Green fruitworm Gypsy moth Navel orangeworm Obliquebanded leafroller Omnivorous leafroller Oriental fruit moth	Pandemis leafroller Peach twig borer Redbanded leafroller Redhumbed caterpillar Fall webworm Tortrix moth (Orange and Garden) Tufted apple budmoth Variegated leafroller Walnut caterpillar Western tent caterpillar	
Nut Trees: Almonds Chestnuts Filberts Pecans Pistachios Walnuts	Citrus cutworm European grapevine moth Filbert webworm Fruittree leafroller Hickory shuckworm Navel orangeworm Obliquebanded leafroller	Omnivorous leafroller Filbert leafroller Pecan nut casebearer Peach twig borer Redhumped caterpillar Roughskinned cutworm Western tent caterpillar	
Citrus:	Amorbia Citrus cutworm Fruittree leafroller	Omnivorous leafroller Orangedog	
Small Fruit and Berries: Blackberries Blueberries Cranberries Currants Longanberries Raspberries Strawberries	Achema sphinx moth Armyworms Blackheaded fireworm Blueberry leafroller Cranberry girdler European grapevine moth* Fruittree leafroller Grape berry moth Gypsy moth Loopers	Obliquebanded leafroller Omnivorous looper Tobacco budworm	
Grapes:	European grapevine moth* Grape berry moth Cherry fruitworm Grape leaffolder Grapeleaf skeletonizer	Green fruitworm Omnivorous leafroller Orange tortrix Saltmarsh caterpillar Yellowstriped armyworm	
Tropical and Other Fruit: Avocados	Amorbia Loopers Orange tortrix	Omnivorous leafroller Omnivorous looper Spanworm	
Bananas	Banana skipper	Banana moth	
Kiwi	Omnivorous leafroller		
Persimmons Pomegranate	Citrus cutworm European grapevine moth* Fall webworm	Filbert webworm Omnivorous leafroller Redhumped caterpillar Tent caterpillar	

Crop:	Insect Pest
Pineapple	Gummosos-Batrachedra commosae Thecla-Thecla basilides
Tropical / Sub-tropical fruits Avocado, Guava, Lychee Sugar Apple	European grapevine moth* Hornworms Leafrollers Loopers Omnivorous leafroller

Rate/Acre: 0.5 - 2.0 pounds

*Apply at blackhead egg stage or when larvae are newly hatched before leaves are rolled or larvae have entered fruit. Continue applications as necessary for larval control.

V. FIELD CROPS

Crop:	Insect Pest		
Canola/ Rape Seed Evening Primrose Meadow foam	Armyworm Diamondback moth Imported cabbageworm Loopers		
Corn (Field, Sweet, Popcorn, Seed)	Armyworm European corn borer Southwestern corn borer		
Cotton*	Beet armyworm** Bollworm** Cabbage looper Cotton leaf perforator	Saltmarsh caterpillar Soybean looper Tobacco budworm Yellowstriped armyworm**	
Hops	Armyworm Loopers Obliquebanded leafroller	Omnivorous leaftier Spotted cutworm	
Jojoba	Looper (Anacamptodes sp	op.)	
Peanuts	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 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		
Coffee	Banana moth		

Rate/Acre: 0.5 - 2.0 pounds

Use CRYMAX at 0.25 lb/acre to control light to moderate populations of newly hatched tobacco budworm and bollworm in integrated pest management programs. Repeat treatments at four to five day intervals or as long as necessary until results are acceptable. Ovicides or synthetic pyrethroids can be combined with CRYMAX in accordance with the more restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

** Combination of CRYMAX with a contact insecticide is recommended for infestations that include 4th and 5th instar larvae.

VI. COMMERCIAL FLOWERS AND ORNAMENTAL PLANTS

Crop:	Insect Pest	
Bedding plants Flowers (Greenhouse and Field) Greenhouse Ornamentals Greenhouse Vegetables Container Stock	Armyworm Azalea moth Beet armyworm Diamondback moth Ello moth (hornworm) European grapevine moth* Florida fern caterpillar Io moth	Loopers Oleander moth Omnivorous leafroller Omnivorous looper Tobacco budworm

Rate/Acre: 1.0 - 2.0 pounds

*Apply at blackhead egg stage or when larvae are newly hatched before leaves are rolled or larvae have entered fruit. Continue applications as necessary for larval control.

VII. FOREST, SHADE TREE AND NURSERY STOCK

Crop:	Insect Pest	
Forest Shade trees Nursery trees	Bagworm Blackheaded budworm Browntail moth California oakworm 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 Saddle prominent caterpillar Spring and Fall cankerworm Spruce budworm Tent caterpillar Tortix Western tussock moth

Rate/Acre: 0.5 - 2.0 pounds

VIII. TURF

Crop:	Insect Pest	
Turf	Armyworm Sod webworm Tropical sod webworm	

Rate/Acre: 0.5 - 2.0 pounds

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

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 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.

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