70051-86 6/13/2003 Page 1 of 6

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060, Approval expires 2-28-95

United States
**Environmental Protection Agency**
Washington, DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

## Application for Pesticide - Section I

| 1. Company/Product Number | 2. EPA Product Manager | 3. Proposed Classification |
|---|---|---|
| 70051-86 | Phil Hutton | [ ] None [ ] Restricted |
| **4. Company/Product (Name)** | **PM#** | |
| Crymax Bioinsecticide | | |

**5. Name and Address of Applicant** *(Include ZIP Code)*

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

[ ] *Check if this is a new address*

**6. Expedited Reveiw.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

## Section - II

- [ ] Amendment - Explain below.
- [ ] Resubmission in response to Agency letter dated _____
- [x] Notification - Explain below.
- [ ] Final printed labels in repsonse to Agency letter dated _____
- [ ] "Me Too" Application.
- [ ] Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Changed establishment number on label.

## Section - III

**1. Material This Product Will Be Packaged In:**

| Child-Resistant Packaging | Unit Packaging | Water Soluble Packaging | 2. Type of Container |
|---|---|---|---|
| [ ] Yes [ ] No | [ ] Yes [ ] No | [ ] Yes [ ] No | [ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____ |
| * *Certification must be submitted* | If "Yes" Unit Packaging wgt. / No. per container | If "Yes" Package wgt / No. per container | |

| 3. Location of Net Contents Information | 4. Size(s) Retail Container | 5. Location of Label Directions |
|---|---|---|
| [ ] Label [ ] Container | | [ ] |

6. Manner in Which Label is Affixed to Product: [ ] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

## Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

| Name | Title | Telephone No. (Include Area Code) |
|---|---|---|
| Christine A. Dively | Director of Regulatory Affairs | 301-483-3806 |

### Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

| 2. Signature | 3. Title | 6. Date Application Received (Stamped) |
|---|---|---|
| Christine A. Dively | Director of Regulatory Affairs | |
| **4. Typed Name** | **5. Date** | |
| Christine A. Dively | April 28, 2003 | |

2 3 6

CERTIS

Certis USA
9145 Guilford Road
Suite 175
Columbia, MD 21046
**(301) 604-7340**
FAX (301) 604-7015
www.certisusa.com

April 28, 2003

Document Processing Desk
Biopesticides & Pollution Prevention Division (7511C)
Office of Pesticide Programs
1921 Jefferson Davis Hwy.
Crystal Mall 2 Building
Arlington, VA 22202

RE: New Establishment Number

Certis USA L.L.C. (*EPA Company No. 70051*) is respectfully submitting the enclosed EPA Forms 8570-1. The purpose for these notifications is to change the establishment number on the following labels:

Lepinox WDG, EPA Reg. #70051-89
Crymax Bioinsecticide, EPA Reg. #70051-86

Enclosed you will find:

1) Two copies of the Application for Pesticide Notification (EPA Form 8570-1) for each product submitted.
2) Two copies of each label for notification.

Would you please also sign and return the "Notification Receipt" that I have included. Thank you for your assistance in this matter, please contact me at (301) 362-1853 or email to mlynch@certisusa.com if you have any questions.

Sincerely,

Maisie Lynch

Maisie Lynch
Registration Specialist

Enclosure
Cc: Christine A. Dively, Director of Regulatory Affairs

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# Crymax®

## BIOINSECTICIDE

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

**Active Ingredient:**
*Bacillus thuringiensis* subspecies *kurstaki* strain EG7841 solids, spores and Lepidopteran active toxins.....40.00%
**Inert Ingredients:**.....60.00%
**Total**.....100.00%
The percent active ingredient does not indicate product performance and potency measurements are not federally standarized.

**Net Contents:**
**5 U.S. Pound Bag**

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

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

**NOTIFICATION**
Date Reviewed: 6/30/3
Reviewed By: [signature]

**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 treatment advice.

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

CERTIS

**PRECAUTIONARY STATEMENTS**
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**
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
- Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, and P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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.

**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 wash waters.

**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.

(continued next page)

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.

**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:** 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 WDG 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 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 and these guidelines:

**APPLICATION INSTRUCTIONS**

**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.

CRYMAX is a bioinsecticide for use against the lepidopteran larvae listed in the APPLICATION RATE TABLE. Larvae must consume deposits of CRYMAX 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 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 & Cole CROPS**

| Crop such as: | | Insect Pest |
|---|---|---|
| Artichokes | Lentils | Alfalfa looper |
| Arugala | Lettuce (Head, | Armyworm* |
| Asparagus | Leaf, Romaine) | Artichoke plume moth |
| Beans | Malanga | Beet armyworm* |
| Beets | Melons | Cabbage budworm |
| Bok Choy | (Cantaloupe, | Cabbage looper |
| Broccoli | Crenshaw, | Celery leaftier |
| Brussels sprouts | Honeydew, | Corn earworm |
| Cabbage | Muskmelon, | Cross-striped |
| Cardoni | Watermelon, | cabbageworm |
| Carrots | etc.) | Diamondback moth** |
| Cauliflower | Napa | European corn borer |
| Celeriac | Okra | Green cloverworm |
| Celery | Onions | Imported cabbageworm |
| Chick peas | Parsley | Melonworm |
| Chicory | Parsnips | Omnivorous leafroller |
| | Peas | |

### I. Vegetable & Cole CROPS, continued

| Crop such as: | | Insect Pest |
|---|---|---|
| Chinese cabbage | Leeks | Pickleworm |
| Collards | Peppers | Rindworm complex |
| Cucumber | Potatoes | Saltmarsh caterpillar |
| Cucurbits | Pumpkins | Soybean looper |
| Dry bulb onions | Radishes | Tobacco budworm |
| Eggplant | Rutabaga | Tomato fruitworm |
| Escarole | Salsify | Tomato hornworm |
| Endive | Shallots | Tomato pinworm |
| Garlic | Soybean foliage | Velvetbean caterpillar |
| Green onions | Spinach | Yellowstriped armyworm* |
| Greens (Beets, China, Dandelion, Mustard, Turnip) | Squash<br>Sugar beets<br>Sweet potatoes<br>Swiss chard<br>Tomatoes | |
| Horseradish | Turnips | |
| Kale | | |
| Kohlrabi | | |

**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.

### II. HERBS & SPICES

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

**Rate/Acre: 0.5 - 2.0 pounds**

### III. PASTURE & HAY CROPS

| Crop such as: | Insect Pest |
|---|---|
| Alfalfa (hay & seed) | Alfalfa caterpillar |
| Pasture (grasses & hay) | Armyworm |
| Silage | 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 & VINE CROPS

| Crop such as: | Insect Pest | |
|---|---|---|
| **Pome and Stone Fruit Trees:** | Cankerworm (Spring & Fall) | Pandemis leafroller |
| Apples | Cherry fruitworm | Peach twig borer |
| Apricots | Eastern tent caterpillar | Redbanded leafroller |
| Cherries | Fall webworm | Redhumbed caterpillar |
| Nectarines | Fruittree leafroller | Tortrix moth (Orange and Garden) |
| Peaches | Green fruitworm | Tufted apple budmoth |
| Pears | Gypsy moth | Variegated leafroller |
| Plums | Navel orangeworm | Walnut caterpillar |
| Prunes | Obliquebanded leafroller | Western tent caterpillar |
| Quince | Omnivorous leafroller | |
| | Oriental fruit moth | |

### IV. FRUIT, NUT & VINE CROPS, continued

| Crop such as: | Insect Pest | |
|---|---|---|
| **Nut Trees:** | Citrus cutworm | Omnivorous leafroller |
| Almonds | Filbert leafroller | Pecan nut casebearer |
| Chestnuts | Filbert webworm | Peach twig borer |
| Filberts | Fruittree leafroller | Redhumped caterpillar |
| Pecans | Hickory shuckworm | Roughskinned cutworm |
| Pistachios | Navel orangeworm | Western tent caterpillar |
| Walnuts | Obliquebanded leafroller | |
| Citrus: | Amorbia | Omnivorous leafroller |
| | Citrus cutworm | Orangedog |
| | Fruittree leafroller | |
| **Small Fruit and Berries:** | Achema sphinx moth | Omnivorous looper |
| Blackberries | Armyworms | Tobacco budworm |
| Blueberries | Blackheaded fireworm | |
| Boysenberries | Blueberry leafroller | |
| Cranberries | Cranberry girdler | |
| Currants | Fruittree leafroller | |
| Longanberries | Grape berry moth | |
| Raspberries | Gypsy moth | |
| Strawberries | Loopers | |
| | Obliquebanded leafroller | |
| Grapes: | Grape berry moth | Omnivorous leafroller |
| | Cherry fruitworm | Orange tortrix |
| | Grape leaffolder | Saltmarsh caterpillar |
| | Grapeleaf skeletonizer | Yellowstriped armyworm |
| | Green fruitworm | |
| **Tropical and Other Fruit:** | Amorbia | Omnivorous leafroller |
| Avocados | Loopers | Omnivorous looper |
| | Orange tortrix | Spanworm |
| Bananas | Banana skipper | |
| Kiwi | Omnivorous leafroller | |
| Persimmons | Citrus cutworm | Omnivorous leafroller |
| Pomegranate | Fall webworm | Redhumped caterpillar |
| | Filbert webworm | Tent caterpillar |
| Pineapple | Gummosos-Batrachedra commosae<br>Thecla-Thecla basilides | |
| Tropical fruits | Hornworms | Loopers |
| | Leafrollers | Omnivorous leafroller |

**Rate/Acre: 0.5 - 2.0 pounds**

### V. FIELD CROPS

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

**V. FIELD CROPS, continued**

| Crop such as: | Insect Pest | |
|---|---|---|
| Rice | Armyworm<br>Green cloverworm<br>Loopers | Saltmarsh caterpillar<br>Velvetbean caterpillar |
| Safflower | Armyworm**<br>Loopers | Saltmarsh caterpillar |
| Small Grains (Barley, Oats, Rye, Wheat, etc.) | Armyworm**<br>Loopers | |
| Sorghum | European corn borer<br>Saltmarsh caterpillar | Velvetbean caterpillar |
| Soybeans | Green cloverworm<br>Soybean looper | Velvetbean caterpillar |
| Sunflowers | Banded sunflower moth<br>Beet armyworm**<br>Headmoth | Loopers<br>Sunflower moth |
| Tobacco | Tobacco budworm<br>Tobacco hornworm<br>Loopers | |

**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 & ORNAMENTAL PLANTS**

| Crop such as: | Insect Pest | |
|---|---|---|
| Bedding plants<br>Flowers (Greenhouse and Field)<br>Greenhouse Ornamentals<br>Greenhouse Vegetables<br>Container Stock | Armyworm<br>Azalea moth<br>Beet armyworm<br>Diamondback moth<br>Ello moth (hornworm)<br>Florida fern caterpillar<br>Io moth<br>Loopers | Oleander moth<br>Omnivorous leafroller<br>Omnivorous looper<br>Tobacco budworm |

**Rate/Acre: 1.0 - 2.0 pounds**

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

| Crop such as: | Insect Pest | |
|---|---|---|
| Forest<br>Shade trees<br>Nursery trees | Bagworm<br>Blackheaded budworm<br>Browntail moth<br>California oakworm<br>Douglas fir tussock moth<br>Elm spanworm<br>Fall webworm<br>Fruittree leafroller<br>Greenstriped mapleworm<br>Gypsy moth<br>Jack pine budworm<br>Mimosa webworm | Pine butterfly<br>Redhumped caterpillar<br>Saddleback caterpillar<br>Saddle prominent caterpillar<br>Spring and Fall cankerworm<br>Spruce budworm<br>Tent caterpillar<br>Tortix<br>Western tussock moth |

**Rate/Acre: 0.5 - 2.0 pounds**

**VIII. TURF**

| Crop such as: | Insect Pest |
|---|---|
| Turf | Armyworm<br>Sod webworm<br>Tropical sod webworm |

**Rate/Acre: 0.5 - 2.0 pounds**

**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.