

70051-52

3/23/2010

1 of 7



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

March 23, 2010

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Christine A. Dively
Director of Regulatory Affairs
CERTIS USA, LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046

RE: Product Name: Thuricide HPC
EPA Reg. No: 70051- 52
Application for Notification dated November 20, 2009, to add container reuse statement to the Storage and Disposal section as permitted by PR Notices 2007-4 and 2008-1.

Dear Ms. Dively,

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticides Registration Notice (PRN) 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the letter submitted with this application has been stamped "Notification, received and accepted" and will be placed accordingly in our records.

Questions concerning this action should be directed to Mary Paden (703) 308-0411 or email at paden.mary@epa.gov.

Sincerely,

Sheryl K. Reilly

Sheryl K. Reilly, Ph.D., Chief
Microbial Pesticides Branch
Biopesticides and Pollution Prevention
Division (7511P)

CONCURRENCES

SYMBOL	▶ 7511P						
SURNAME	▶ Paden						
DATE	▶ 3-18-10						



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 70051-52	2. EPA Product Manager Microbial Pesticides Branch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Thuricide HPC	PM# 92	
5. Name and Address of Applicant (Include ZIP Code) Certis U.S.A., L.L.C. 9145 Guilford Road, Suite 175 Columbia, MD 21046 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: NOTIFICATION Accepted EPA Reg. No. _____ Date Reviewed: 03-18-10 Product Name _____ Reviewed By: [Signature]	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

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

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		<input type="checkbox"/> Glass	<input type="checkbox"/> Other (Specify)
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 2.5 Gallon	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product			
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper, glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Christine Dively	Title Director, Reg. Affairs	Telephone No. (Include Area Code)
2. Signature <i>Christine A. Dively</i>		6. Date Application Received (Stamped)
3. Title Director, Reg. Affairs		
4. Typed Name Christine Dively	5. Date November 23, 2009	

4097

Thuricide HPC

BIOLOGICAL INSECTICIDE

HIGH POTENCY AQUEOUS CONCENTRATE

For control of insect pests in vegetables, fruits, nuts, field crops, and ornamentals.
For control of insect pests in shade trees grown in nurseries and greenhouses.

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *kurstaki* strain SA-12 solids, spores and Lepidopteran active toxins. (at least 6 million viable spores per milligram)* 15.0%

OTHER INGREDIENTS: 85.0%

TOTAL 100.0%

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

Net Contents: 2.5 Gallon

EPA Reg. No. 70051-52

EPA Est. No. 70051-CA-001

Lot No.:

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

NOTIFICATION *Accepted*

Date Reviewed: *03-18-10*

Reviewed By: *m. Gladen*

CERTIS

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.

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 further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Hot Line Number: 1-800-255-3924.

ENVIRONMENTAL HAZARDS

For terrestrial uses: 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 washwater or rinsate.

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 feet of any threatened or endangered lepidoptera.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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 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.

Engineering Controls Statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendation:
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.

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 through any type of irrigation system. 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 State or Tribal agency responsible for pesticide regulation.

Thorough coverage is essential when using Thuricide HPC Concentrate.

Crop	Pest	Quarts per acre
COTTON	Tobacco Budworm	1 - 2
	Cotton Bollworm	1 - 2

For the suppression of light to moderate infestations, apply at first sign of egg laying or newly hatched worms (1st and 2nd instar larvae). Reapply at 3-5 day intervals to sustain worm suppression or until adequate reduction of worm population is achieved. Use THURICIDE HPC under a pest management program that includes close scouting. If heavy worm populations occur, it may be necessary to apply an insecticide with rapid knockdown and good larvicidal activity as a replacement. Apply from 5-15 gallons total spray per acre with ground equipment and from 2-5 gallons total spray per acre with aerial equipment.

DIRECTIONS FOR USE OF TANK-MIX COMBINATIONS OF THURICIDE HPC AND CHLORDIMEFORM (FUNDAL³ OR GALECRON⁴ OR 4EC)*

Crop	Insecticide	Pest	Rate per acre
COTTON	Thuricide HPC + chlordimeform SP* or chlordimeform 4EC*	Tobacco Budworm	1/2 - 1 pt. +
		Cotton Bollworm	1/8 - 1/4 lb. or 1/4 - 1/2 pt.

Use Thuricide HPC plus chlordimeform for a combined ovicide/larvicide effect. Use the low rates for suppression of light infestations, and the high rates for suppression of moderate infestations. Apply at first sign of egg laying or newly hatched worms. Reapply at 3-5 day intervals to sustain suppression, or until adequate worm reduction is achieved. Apply from 2-5 gallons total spray per acre with aerial equipment. Follow all restrictions, safety precautions and directions contained on the FUNDAL or GALECRON labels.

*Not registered for use in California

Crop	Pest	Quarts per acre
COTTON	Cabbage Looper	1 - 2
PEANUTS	Cabbage Looper	1/2 - 1 1/2
	Velvetbean Caterpillar	1/2 - 1 1/2
	Podworm ²	1 - 2
POTATOES	Cabbage Looper	1 - 2
SOYBEANS	Soybean Looper	1 - 1 1/2
	Cabbage Looper	1 - 1 1/2
	Green Cloverworm	1/2 - 1 1/2
	Velvetbean Caterpillar	1/2 - 1 1/2
	Podworm ²	1 - 2
SUGARBEETS	Cabbage Looper	1 - 2
	Omnivorous Leafroller	1 - 2
TOBACCO	Cabbage Looper	1 - 1 1/2
	Tobacco Budworm	1 - 1 1/2
	Tobacco Hornworm	1 - 1 1/2
TOMATOES	Tomato Hornworm	1/2 - 1 1/2
	Cabbage Looper	1/2 - 1 1/2
	Tomato Fruitworm ²	1 - 2
WATERMELONS (Florida)	Rindworm Complex	1/2 - 1 1/2

Crop	Pest	Quarts per acre
GRAPES	Grape Leaf Folder	1 - 2
		Start treating as soon as possible after hatching and before larvae are protected by leaf folds. Apply by ground equipment in up to 200 gallons total spray per acre to obtain thorough coverage of leaf surfaces.
GRAPES	Omnivorous Leafroller	1/2 - 1 1/2
MINT	Cabbage Looper	1 - 2
STRAWBERRIES	Cabbage Looper Roughskinned Cutworm	1 - 2
		Use 20 gallons water minimum per acre when using ground equipment and 5 gallons water minimum per acre by aircraft.
SUGAR MAPLE (greenhouse and nursery grown only)	Spring & Fall Cankerworm	1 - 2
	Fall Webworm	1 - 2
	Tent Caterpillar	1 - 2
	Gypsy Moth	1 - 2
PEACHES, NECTARINES	Redhumped Caterpillar	1 - 2
	Tent Caterpillar	1 - 2
	Omnivorous Leafroller	1 - 2
BANANAS (Hawaii)	Banana Skipper	1 - 2
		Use calibrated ground equipment with adequate water to apply to point of runoff.
ORANGES	Fruit Tree Leafroller	1 - 2
	Orange Dog	1/2 - 1
ORANGES	Citrus Cutworm	1 - 2
		Use 50 gallons water minimum to 600 gallons maximum per acre when using ground equipment, and 10 gallons water minimum per acre by aircraft.
FILBERTS ¹	Tent Caterpillar*	1 - 2
	Filbert Leafroller**	1 - 2
* Apply when caterpillars are actively feeding (2nd-4th instar.)		
** Apply at 10% egg hatch.		
PECANS ¹	Redhumped Caterpillar	1 - 2
	Fall Webworm	1 - 2
	Tent Caterpillar	1 - 2
WALNUTS ¹	Tent Caterpillar	1 - 2
	Fall Webworm	1 - 2
	Omnivorous Leafroller	1 - 2
	Redhumped Caterpillar	1/4 - 1

Crop	Pest	Quarts per acre
KIWI	Omnivorous Leafroller	1 - 2
	Fruittree Leafroller	1 - 2
	Cabbage Looper	1 - 2
*SHADE TREES, ORNAMENTALS *greenhouse and nursery grown shade trees only	Spring & Fall Cankerworm	1/2 - 1
	Fall Webworm	1/2 - 1
	Tent Caterpillar	1/2 - 1
	Redhumped Caterpillar	1/2 - 2
	Oakmoth Larvae	1 - 2
	Gypsy Moth ⁵	1 - 2
STORED SOYBEANS, GRAINS	Indian Meal Moth	1 - 2
	Almond Moth	1 - 2

¹ To achieve adequate coverage of large trees or dense foliage, aerial application of not less than 15 gpa is preferred.

² Suppression only.

³ FUNDAL 4EC (EPA Reg. No. 2139-100) Nor-Am Ag Prod., Inc. FUNDAL SP (EPA Reg. No. 2139-98) Nor-Am Ag Prod., Inc.

⁴ GALECRON 4EC (EPA Reg. No. 100-551-AA) Ciba-Geigy Corp. GALECRON SP (EPA Reg. No. 100-554-AA) Ciba-Geigy Corp.

⁵ Gypsy Moth: Aerial Application.

THURICIDE HPC may also be applied by air to prevent excessive defoliation by Gypsy Moth. For best results, spray when leaf expansion reaches 40% - 50%, and respray 14 days later. Use two quarts of THURICIDE HPC in 1-4 gallons finished spray per acre. Incorporate in the spray mix an evaporation retardant, such as molasses, Cargill's Insecticide Base polyethylene glycol E-400, and a film forming sticker. To obtain thorough coverage use spray equipment suitable to deliver droplets with an average diameter of less than 300 microns.

To control and prevent Indian Meal Moth and Almond Moth infestations of stored grains and soybeans, prepare a spray mixture which includes one gallon of water for every 6 fluid ounces THURICIDE HPC. The spray mixture may be applied either by treating the top 4 inches of grain as it is being augured into storage (applying 0.6 pint of mixture per bushel in the grain stream), or by treating the surface of grain after it is in the bin. The table below can be used as a guide in determining the total amount of THURICIDE HPC needed according to the bin diameter or the number of bushels to be treated.

Bin Diameter (ft.)	Surface Area (sq. ft.)	Bushels (to 4 inch depth)	THURICIDE HPC Rate
8	50	13	6 fluid oz.
12	113	30	14 fluid oz.
16	201	53	24 fluid oz.
20	314	84	1 qt. 2 fluid oz.
24	452	120	1 qt. 20 fluid oz.
28	615	163	2 qts. 8 fluid oz.
32	804	214	2 qts. 28 fluid oz.

• To insure thorough coverage when making applications to the grain surface after it is in the bin, apply spray mixture in three applications. Mix the grain with a scoop or rake to a depth of 4 inches after each application.

• Stored grain may be treated anytime, but for best results, treat

grain at the time it is placed into storage or shortly thereafter, or in the early spring prior to egg laying. Full season control is normally experienced.

• Retreat only if reinfestation occurs.

• For the protection of bagged grain, apply spray mixture to entire grain mass, and mix thoroughly prior to bagging. THURICIDE HPC at 1 1/2 qts. per 10 gallons of water will treat approximately 100 bushels.

• Treated grain may be used at any time after treatment.

Greenhouse Application

THURICIDE HPC may also be used in the greenhouse and on flowers at 1/2 - 1 qt. per 100 gallons of water for control of listed insects on crops on this package label.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool place. Activity may be impaired by storage at temperatures above 90°F. Protect from freezing.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 30 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of 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 OF MERCHANTABILITY IS MADE.

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