



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

**OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION**

December 13, 2023

Rebecca L. Wilken
Global Regulatory Affairs Manager
Certis USA LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling and Formulation
Amendment – To Revise the Basic Confidential Statement of Formula (CSF), Add
Alternate CSF #1 to the Registration, Add Alternate Brand Names to the Label, Add the
Company and OMRI Logos, Revise the Precautionary Statements and Directions for
Use, and Make Other Changes, Including Those Requested by EPA (e.g., Revise the
Active Ingredient Name and Personal Protective Equipment)
Product Name: Thuricide HPWP
EPA Registration Number: 70051-53
EPA Receipt Date: 07/13/2022
Action Case Number: 00378764

Dear Ms. Wilken:

The amended labeling and Confidential Statements of Formula (CSFs) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable.

The alternate brand names Thuricide PH, Thuricide HP, and Costar HP have been added to the registration, and our records have been updated accordingly. This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

Please note that the record for this product currently contains the following acceptable CSFs:

- Basic CSF dated 12/30/2022
- Alternate CSF #1 dated 12/30/2022

Any CSFs other than those listed above are superseded/no longer valid.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

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 FIFRA and is subject to review by the U.S. Environmental Protection Agency (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 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 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 EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Hannah Dean via email at dean.hannah@epa.gov.

Sincerely,

CODY

KENDRICK

Digitally signed by
CODY KENDRICK

Date: 2023.12.13
09:36:03 -08'00'

Cody Kendrick, Senior Regulatory Advisor
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511M)
Office of Pesticide Programs

Enclosure

Thuricide® HPWP

BIOLOGICAL INSECTICIDE



FOR ORGANIC PRODUCTION



ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *kurstaki* strain SA-12 solids, spores, and insecticidal toxins*70.0%

OTHER INGREDIENTS:30.0%

TOTAL:100.0%

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

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

[See [side][back][inside][other] panel for additional [first aid] [and] [precautionary] statements]

[Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.]

Net Weight: _____

EPA Reg. No.: 70051-53

EPA Est. No.: _____

Lot Number: _____

Manufactured by:



Certis USA LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046

ESL-Del OTT

Ver.: _____



ACCEPTED

Dec 13, 2023

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 70051-53

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 treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For non-emergency information on this product, call 1-800-255-3924 (Chemtel). In the event of a medical emergency, call the poison control center at 1-800-222-1222.	

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 and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- Protective eyewear
- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter (if tank mixing with any oil-based spreaders/stickers, use only R or P filters); OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. 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 are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users should:

- 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

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 ¼ mile of any habitats of endangered or threatened Lepidoptera. No manual application can be made within 300 feet 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 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.

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 interval. The requirements in this box 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:

- Protective eyewear
- coveralls
- waterproof gloves
- shoes plus socks

PRODUCT INFORMATION

Thorough coverage is essential when using this product. Apply at first sign of infestation when larvae are small and repeat at weekly intervals as needed to maintain control. This product attacks the larval gut and must be eaten by the insect to be effective. Thorough underleaf coverage is, therefore, essential for best results. After eating this product, larvae stop feeding and die within 2-3 days. Since the active ingredient, *Bacillus thuringiensis*, is exempt from tolerance requirements, this product may be applied up to the day of harvest.

MIXING

Pour application rate amount of product onto the surface of partially filled spray tank. Maintain agitation until tank is filled to desired level. Spray tanks equipped with bypass agitation only should maintain pump circulation at full capacity until mixing is complete.

Use the higher rates against very heavy larvae infestations or where it is difficult to get good coverage due to rank foliage. Do not allow dilute sprays to stand in the tank for more than 12 hours. Combinations with chemical insecticides, fungicides, spreader-stickers, and stickers in the tank are generally not deleterious to this product if the mix is used promptly.

Compatibility Check: Before mixing in the spray tank, test physical compatibility by mixing all components in a small container in proportionate quantities. Use tank mixes only in States where the tank mix products and application site are registered. Read and follow label directions for use for other pesticides used as tank mix partners with name of pesticide for specific application rates, application timing, and precautions. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

GROUND APPLICATION: EXCEPT SHADE TREES, FOREST TREES, AND NONBEARING FRUIT TREES

Use application rate amount of this product in a minimum of 5 to 50 gallons of water, depending on the type of crop and requirements of state regulations. Add a sticker, adhesive or deposit builder where heavy dew or rain is encountered. Applications can be made as needed through directed spray or drench at the base of each plant. Do not apply over the top or to foliage.

GROUND APPLICATION: SHADE TREES, FOREST TREES, AND NONBEARING FRUIT TREES ONLY

Use application rate amount of product in 100 gallons of water in high pressure, high gallonage, hydraulic sprayers. Wet foliage thoroughly with spray but not to the point of excessive runoff. For mist blowers, use application rate amount in 10 gallons of water. To prevent washoff by rain, add a sticker to the finished spray.

AERIAL APPLICATION: SHADE TREES, FOREST TREES, AND NONBEARING FRUIT TREES ONLY

Use application rate amount of this product in 5 to 20 gallons of water. A sticker should be added under conditions of heavy dew or rain. Apply early morning or evening when the air is calm.

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

APPLICATION RATES

Crop(s)	Pest	Lbs. per acre
ALFALFA	Alfalfa Caterpillar	$\frac{1}{6}$ - $\frac{1}{4}$
ALMONDS	Redhumped Caterpillar	$\frac{1}{2}$ - 1
ALMONDS, CHERRIES Apply when caterpillars are actively feeding (2 nd - 4 th instar).	Tent Caterpillar	$\frac{1}{2}$ - 1
APPLES, PEARS Apply when eggs or newly hatched larvae first appear. Continue applying as a part of the normal cover spray program until pest is adequately controlled.	Redbanded Leafroller Tufted Apple Budmoth Variegated Leafroller Tent Caterpillar Fruit Tree Leafroller Gypsy Moth	$\frac{1}{2}$ - 1
BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER COLLARDS, KALE, MUSTARD GREENS, TURNIP GREENS	Diamondback Moth Imported Cabbage Worm Green Cloverworm Cabbage Looper	$\frac{1}{4}$ - $\frac{1}{2}$ $\frac{1}{4}$ - $\frac{3}{4}$ $\frac{1}{4}$ - $\frac{3}{4}$ $\frac{1}{2}$ - 1
BEANS, BEETS, CARROTS, CELERY, CHARD, CHINESE CABBAGE (Choy sum), COS LETTUCE, ENDIVE, ESCAROLE, GARLIC, KOHLRABI, LENTILS, LETTUCE, ONIONS, PARSLEY, RADISHES, SPINACH, SQUASH, PEAS	Cabbage Looper	$\frac{1}{2}$ - 1
CUCUMBERS, MELONS Begin treatment when larvae are small to avoid damage and scarring to the crop.	Cabbage Looper	$\frac{1}{2}$ - 1
EGGPLANT, PEPPERS	Tomato Hornworm Tomato Fruitworm ¹ Cabbage Looper	$\frac{1}{4}$ - $\frac{1}{2}$ $\frac{1}{2}$ - 1

Crop(s)	Pest	Lbs. per acre
CURRENTS, BLUEBERRIES, CANEBERRIES (BLACKBERRIES, DEWBERRIES, RASPBERRIES) Apply by ground equipment only. Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.	Omnivorous Leafroller	½ - 1
COTTON	Tobacco Budworm Cotton Bollworm	½ - 1

For the suppression of light to moderate infestations, apply at first sign of egg laying or newly hatched larvae (1st and 2nd instar larvae). Reapply at 3–5-day intervals to sustain larvae suppression or until adequate reduction of larvae population is achieved. Use under a pest management program that includes close scouting. If heavy larvae 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 (all uses) and from 2-5 gallons total spray per acre with aerial equipment (gypsy moth use only).

Crop(s)	Pest	Lbs. per acre
COTTON	Cabbage Looper	½ - 1
PEANUTS	Cabbage Looper Velvetbean Caterpillar Podworm ¹	¼ - ¾ ¼ - ¾ ½ - 1
POTATOES	Cabbage Looper	½ - 1
SOYBEANS	Soybean Looper Cabbage Looper Green Cloverworm Velvetbean Caterpillar Podworm ¹	½ - ¾ ½ - ¾ ¼ - ¾ ¼ - ¾ ½ - 1
SUGARBEETS	Cabbage Looper Omnivorous Leafroller	½ - 1
TOBACCO	Cabbage Looper Tobacco Budworm Tobacco Hornworm	½ - ¾ ¼ - ¾ ¼ - ¾
TOMATOES	Tomato Hornworm Cabbage Looper Tomato Fruitworm ¹	¼ - ½ ½ - 1 ½ - 1
WATERMELONS (Florida)	Rindworm Complex	¼ - ¾
GRAPES 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.	Grape Leaf Folder	½ - 1
GRAPES	Omnivorous Leafroller	½ - 1
MINT	Cabbage Looper	½ - 1
STRAWBERRIES Use 20 gallons water minimum per acre when using ground equipment and 5 gallons water minimum per acre by aircraft.	Cabbage Looper Roughskinned Cutworm	½ - 1
SUGAR MAPLE	Spring Cankerworm Fall Cankerworm Fall Webworm Tent Caterpillar Gypsy Moth	½ - 1

Crop(s)	Pest	Lbs. per acre
PEACHES, NECTARINES	Redhumped Caterpillar Tent Caterpillar Omnivorous Leafroller	½ - 1
BANANAS (Hawaii) Use calibrated ground equipment with adequate water to apply to point of runoff.	Banana Skipper	½ - 1
ORANGES	Fruit Tree Leafroller Orange Dog	½ - 1 ¼ - ½
ORANGES Use 50 gallons water minimum to 600 gallons maximum per acre when using ground equipment, and 10 gallons water minimum per acre by aircraft.	Citrus Cutworm	½ - 1
FILBERTS *Apply at 10% egg hatch. **Apply when caterpillars are actively feeding (2nd-4th instar.)	Tent Caterpillar** Filbert Leafroller*	½ - 1
PECANS	Redhumped Caterpillar Fall Webworm Tent Caterpillar	½ - 1
WALNUTS Use 50 gallons water minimum to 600 gallons maximum per acre when using ground equipment, and 10 gallons water minimum per acre by aircraft.	Redhumped Caterpillar Tent Caterpillar Fall Webworm Omnivorous Leafroller	¼ - 1 ½ - 1
SHADE TREES, ORNAMENTALS, FOREST TREES, NONBEARING TREES	Spring Cankerworm Fall Cankerworm Fall Webworm Tent Caterpillar Redhumped Caterpillar Oakmoth Larvae Gypsy Moth ²	¼ - ½ ¼ - 1 ½ - 1

¹ Suppression only.

²Gypsy Moth: Aerial application.

GYPSY MOTH: AERIAL APPLICATION

This product may be applied aerially to prevent excessive defoliation by Gypsy Moths on shade trees, forest trees, and nonbearing fruit trees only. For best results, spray when leaf expansion reaches 40%- 50%, and respray 14 days later. Use one pound of product in 1-4 gallons finished spray per acre. Incorporate an evaporation retardant in the spray mix such as molasses, polyethylene glycol (such as PEG 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.

GREENHOUSE APPLICATION

This product may also be used in the greenhouse and on flowers for control of specified insects. Use a rate of 1/4- 1/2 lb. product per 100 gallons of water.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

Store in a cool place. Activity may be impaired by storage at temperatures above 90°F.

PESTICIDE DISPOSAL:

Wastes resulting from the use of this product must 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 LLC 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 pest problem, condition of the crop, incompatibility with other chemical(s) not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. To the extent permitted by applicable law, buyer assumes all risks of use, storage or handling of this material not in accordance with directions given herein. TO THE EXTENT PERMITTED BY APPLICABLE LAW, NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

Optional Label Elements:

Graphics

- {OMRI Seal(s)}



- {Logos}



List of Alternate Brand Names:

- Thuricide® PH
- Thuricide® HP
- Costar® HP