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U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Biopesticides and Pollution Prevention Division (7511P) 1200 Pennsylvania Avenue NW Washington, D.C. 20460

NOTICE OF PESTICIDE:

Registration

Reregistration (under FIFRA. EPA Reg. Number:

Date of Issuance:

70051-57

10-2-07

Term of issuance:

Unconditional

Name of Pesticide Product:

Thuricide 48LV Biological Insecticide

Name and Address of Registrant (include ZIP Code):

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

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above. This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain registration of your product.

A copy of the approved label for the product is enclosed for your records.

Signature of Approving Official:

W. Michael M

W. Michael McDavit, Associate Director, Biopesticides and Pollution Prevention Division (7511P)

EPA Form 8570-6

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|---------|----------|------|------------|----|-------|---|---------------------------------------|
| SYMBOL | 75119 | | | | | | • |
| SURNAME | Reynolds | | | | | , | |
| DATE . | 10/107 | ÷ | | · | | | |

Thuricide.48LV

BIOLOGICAL INSECTICIDE

Aqueous Concentrate for Aerial or Ground Application
For Control of Insect Pests on Fruits and Nuts, Vegetables, Cotton, Soybeans, and
Ornamental and Shade Trees in Nurseries and Greenhouses

ACTIVE INGREDIENT:

* 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 gal., 53 gal., Bulk EPA Reg. No. 70051-57

EPA Reg. No. 70051-57 EPA Est. No. 70051-CA-001 Made in U.S.A.

Lot No.:

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



FIRST AID

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled. Avoid breathing spray mist. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment:

Applicators and other handlers must wear:

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

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.

Mixer/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.

Engineering Controls Statement

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 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 water mark. Do not contaminate water when disposing of equipment washwaters 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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.



OCT 02 2007

Under the Federal Insecticide.
Fungicide, and Redenticide Act,
as assended, for the positicide
registered under
PARec. No. 70051-57

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 only apply to uses of this product that are covered by the Worker Protection Standard.

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.

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
- Shoes plus socks

Suspension must be shaken or stirred before use. Pour the application rate amount of **Thuricide 48 LV** into the required volume of water in the spray tank. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 72 hours. **Thuricide 48 LV** is formulated to provide desirable coverage and stickability on leaf surfaces. Additional adjuvants, spreaders, or stickers may be added but are not essential.

Do not apply this product through any type of irrigation system.

GROUND APPLICATION

Use adequate water to obtain good foliar coverage. Wet foliage but do not allow excessive runoff. Apply the per acre application rates of **Thuricide 48 LV** with the following amounts of water:

100 gallons with high-gallonage hydraulic sprayers 10 gallons with mist blower

AERIAL APPLICATION

Apply **Thuricide 48 LV** at application rates by air either alone or as a spray mix diluted with water. Use spray volumes of 32-128 fluid ounces per acre. Best results are expected when **Thuricide 48 LV** is applied to dry foliage with a calibrated aircraft capable of obtaining droplet sizes below 300 microns and preferably in the range of 50-150 microns.

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 FOR CONTROL OF PESTS OF FRUIT AND NUT CROPS, COTTON, VEGETABLES, AND SOYBEANS

SPRAY VOLUME RATES

For conventional aerial applications use at least 2 gallons of total volume per acre in water based sprays, except in the western U.S. where 5 to 10 gallons is the usual minimum. For ground application, use at least 5 gallons of volume per acre. For Ultra-Low Volume aerial applications, mix **Thuricide 48 LV** with vegetable or cottonseed oil and apply in a volume of 1.0-2.25 quarts per acre or apply undiluted.

COTTON - EARLY SEASON PROGRAM

Pre-squaring stage:

Use **Thuricide 48 LV** for early season management of *Helicoverpa zea* and *Heliothis virescens* under conditions of continuous low egg deposition. Use **Thuricide 48 LV** alone at 0.5 pint/acre or in combination with an ovicide, boll weevil sprays, or Pix applications. When egg pressure is moderate to high, tank mix **Thuricide 48 LV** with an ovicide. Use a spray interval of 5-7 days for a total of 3 applications, if necessary, especially if continued egg pressure occurs during this period.

Pre-bloom stage:

For control of light to moderate populations, use **Thuricide 48 LV** at 0.75 to 2.0 pints/acre in combination with an ovicide such as LARVIN (thiodicarb). Repeat treatments at 4 to 5 day intervals or as long as necessary to maintain control. Direct applications at brown eggs and newly hatched larvae. Larvae should not exceed 2,500 per acre (approximately 4 percent of plants infested) before treatments are initiated. Close scouting is essential for well-timed applications.

MID-SEASON PROGRAM

Pre-bloom to first mature boll stage

Use **Thuricide 48 LV** at 0.75 to 4.0 pints/acre in combination with 1/2 to 3/4 rate of a synthetic pyrethroid during midseason. Use the lower rates under moderate pressure and increase rates if necessary to maintain control.

LATE SEASON PROGRAM

Mature bloom boil stage:

Use **Thuricide 48 LV** at 0.75 to 4.0 pints/acre in combination with suggested carbamate or organophosphate insecticides. This product will aid in controlling worms escaping from organophosphate insecticides.

Thuricide 48 LV can be mixed with other insecticides in accordance with the more restrictive label limitations and precautions. This product cannot be mixed with any other product having a label which prohibits such mixing.

Spray Volumes:

For aerial applications, use a minimum of 2 gallons of total volume per acre in water based sprays except in the western United States where 5 to 10 gallons is the usual minimum. For ground applications, use at least 5 gallons of total volume per acre with 3 nozzles per row. For banded applications, use a minimum of 2 nozzles per row with ground sprayer or cultivator. Do not use rates less than 0.5 pint/acre on a broadcast basis. For ULV applications, mix 1 to 2 pints **Thuricide 48 LV** with 1 to 2.5 pints vegetable or cottonseed oil and apply in a total volume of 1.0 to 2.25 quarts per acre. Adjust the spray system to deliver a fine droplet spectrum. Generally, rotary atomizers produce a finer droplet spectrum for ULV applications.

THURICIDE 48 LV RATE FOR COTTON (all states except California)

| Crop | Pest | Pints/Acre (Ground and Aerial Applications) |
|--------|---|---|
| Cotton | Tobacco Budworm ² Cotton Bollworm Armyworm ¹ Looper Saltmarsh Caterpillar | 1.0 - 4.0 1.0 - 4.0 2.0 - 4.0 1.0 - 4.0 1.0 - 4.0 |

For use in California, see California Crops section of label.

Timing of Application

- Use Thuricide 48 LV to control small armyworm (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatments as necessary. If mature worms or heavy populations are present use a contact insecticide to enhance control.
- Use Thuricide 48 LV to control light to moderate populations of newly hatched worms in pest management programs. Use under close scouting when beneficial insects are active or building. Repeat treatments at 4 to 5 day intervals or as long as necessary and results are acceptable. Thuricide 48 LV can be mixed with Larvin for use on cotton against tobacco budworm and cotton bollworm in accordance with the more restrictive of label limitations and precautions. Do not exceed label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing. Use Thuricide 48 LV alone for Helicoverpa zea and Heliothis virescens control only on preblooming cotton where few or no eggs are present. If significant eggs are present, use only in combination with ovicidal rates of Larvin. Larvin is a trademark of Rhone-Poulenc Ag Company.

THURICIDE 48 LV FOR PEANUTS (for all states except California)

| Crop | Pest | Pints/Acre (Ground and Aerial Applications) |
|--------|---|---|
| Peanut | Green Cloverworm Looper Podworm Velvetbean Caterpillar Armyworm | 1.0 - 2.0 1.0 - 2.0 2.0 - 4.0 1.0 - 2.0 2.0 - 4.0 |

Use **Thuricide 48 LV** to control podworms and armyworms when populations are light to moderate and good spray coverage can be achieved. Use **Thuricide 48 LV** at 1.0-4.0 pints/acre (2.0-4.0 pints/acre for armyworm) when small larvae first appear. Make applications to coincide with egg lay and early instar larvae. Under conditions of higher pressure and rapid plant development, use a contact insecticide in combination with **Thuricide 48 LV**. Repeat treatments as necessary to maintain acceptable control.

THURICIDE 48 LV FOR ALFALFA, HAY AND OTHER FORAGE CROPS (for all states except California)

| Crop | Pest | . Pints/Acre (Ground and Aerial Applications) |
|---|--|---|
| Alfalfa (hay and seed) Hay and Other Forage Crops* | Armyworm Looper Alfalfa Caterpillar European Skipper Webworm | 2.0 - 4.0 1.0 - 2.0 1.0 - 2.0 1.0 - 2.0 1.0 - 2.0 |

^{*}For use in California –See the California Crops section of this

Application Timing

Use **Thuricide 48 LV** to control small armyworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature worms or heavy populations are present use a contact insecticide to enhance control.

THURICIDE 48 LV FOR OTHER CROPS (including California)

| Сгор | Pest | Pints/Acre (Ground and Aerial Applications) |
|--|--|---|
| Legume Vegetables Vegetables including fruiting vegetables such as Bean, Pea, Lentil, and Soybean, Tomato, Cabbage (including Chinese Cabbage), Melons, Peppers, Cucurbits | Looper Green Cloverworm Velvetbean Caterpillar Podworm Armyworm Soybean Looper Saltmarsh Caterpillar Cabbage Looper Cutworm | 2.0 - 4.0 1.0 - 2.0 1.0 - 2.0 1.0 - 2.0 1.0 - 2.0 |
| Root and Tuber* Crops such as Sugar Beet, Carrot, and Potato | Armyworm Cutworm Diamondback Moth Hornworm Looper European Corn Borer | 2.0 - 4.0 1.0 - 4.0 1.0 - 2.0 1.0 - 2.0 2.0 - 4.0 1.0 - 2.0 |
| Stone Fruit such as Cherry, Plum, Peach, Prune, Nectarine Pome Fruit such as Apple, Pear Tree Nuts such as Almond, Pecan, Walnut, Pistachio, Filbert Pomegranate | Cankerworm Codling Moth Fall Webworm Leafroller Gypsy Moth Redhumped Caterpillar Tent Caterpillar Tufted Apple Budworm Walnut Caterpillar Armyworm¹ Oriental Fruit Moth Peach Twig Borer Pecan Nut Casebearer Navel Orangeworm | 1.0 - 2.0 1.0 - 2.0 1.0 - 2.0 1.0 - 4.0 1.0 - 4.0 2.0 - 4.0 1.0 - 4.0 |
| Hops | Armyworm ¹ Looper | 2.0 - 4.0 1.0 - 2.0 |
| Tobacco | Tobacco Budworm Hornworm Looper | 1.0 - 4.0 1.0 - 4.0 1.0 - 4.0 |

^{*}For use in California, see the California Crops section of this label.

Application Timing

Use **Thuricide 48 LV** to control small armyworms and/or podworms (1st and 2nd instar) when populations are light, apply full coverage sprays. Repeat treatment as necessary. If mature worms or heavy populations are present use a contact insecticide to enhance control.

THURICIDE 48 LV FOR OTHER CROPS (including California) (continued)

| Crop | Pest | Pints/Acre (Ground and Aerial Applications) |
|-------------------|---------------------|---|
| Small Fruits and | Spanworm | 1.0 - 2.5 |
| Berries such as | Gypsy Moth | 1.0 - 2.5 |
| Blueberry, Grape, | Blossom Worm | 1.0 - 2.5 |
| Cranberry and | Sparganothis | 1.0 - 2.5 |
| Strawberry | Fruitworm | |
| | Fireworm | 1.0 - 2.5 |
| | Cranberry Fruitworm | 1.0 - 2.5 |
| | Armyworm | 2.0 - 4.0 |
| | Black Cutworm | 1.0 - 2.5 |
| | Looper | 1.0 - 2.5 |
| , | Tent Caterpillar | 1.0 - 2.5 |

Application Timing

Treat when larvae are young and before economic threshold of damage have been exceeded. If hatch occurs over an extended period of time, consider multiple applications. Use higher rates when pest pressure is heavy and/or older larvae are present. Tank mixes of **Thuricide 48 LV** plus a low rate of contact insecticide (such as phosmet) registered for use on small fruit and berries may enhance control of heavy populations and large larvae. An approved spreader-sticker can be used.

Thuricide 48 LV For California Crops

| mandac 40 EV For Gamorina Grops | | | | |
|--|----------------------------------|---|--|--|
| Crop | Pest | Pints/Acre (Ground and Aerial Applications) | | |
| Cotton | Armyworm ¹ Looper | 2.0 - 4.0 1.0 - 2.0 | | |
| Alfalfa (Hay and Seed) Hay and Other Forage Crops | Armyworm¹ Alfalfa Caterpillar | 2.0 - 4.0 1.0 - 2.0 | | |
| Root and Tuber such as Sugar Beets, Carrots, and Potato | Armyworm¹ | 2.0 - 4.0 | | |

¹See prior sections of this label for further use directions.

Application Timing

Use **Thuricide 48 LV** to control small armyworm (1st and 2nd instar) when populations are light, apply full coverage sprays. Repeat treatment as necessary. If mature worms or heavy populations are present use a contact insecticide to enhance control.

Thuricide 48 LV for Corn

| Crop | Pest | Pints/Acre (Ground Application) | Pints/Acre (Aerial Application) |
|-------------|---|---------------------------------------|---------------------------------------|
| Sweet, Pop, | European Corn Borer and Southwestern Corn Borer (1st and 2nd generation) | 1.5 - 2.5 | 1.5 - 2.5 |

Apply in 6 to 8 inch band directly over whorls; Refer to table below for over the row rates.

FLUID OUNCES APPLIED PER 1,000 ROW FEET

| Row Width | / Width Label Rate/Acre | |
|-----------|-------------------------|--------------------|
| | 1.5 Pts. | 2.5 Pts. |
| 30 | 1.4 fl.oz/1000 ft. | 2.3 fl.oz/1000 ft. |
| 32 | 1.5 fl.oz/1000 ft. | 2.5 fl.oz/1000 ft. |
| 36 | 1.7 fl.oz/1000 ft. | 2.8 fl.oz/1000 ft. |

Timing of Application

Make application when young larvae are present for the first or second generation corn borers. One application against the first generation of larvae should provide economic control. Two or more applications may be required against second generation corn borers if there is an extended period of egg deposition.

First Generation

Apply **Thuricide 48 LV** on seed corn when no more than 15% to 25% of the corn shows "shot hole" feeding in the whorls. With irrigated or sweet corn, apply **Thuricide 48 LV** when not more than 25% to 35% of the whorls show feeding signs. With dryland corn, apply **Thuricide 48 LV** when not more than 35% to 40% of the leaves show "shot hole" feeding signs.

Second Generation

Apply **Thuricide 48 LV** when a field count shows not more than 50 egg masses per 100 plants and the first hatch is taking place.

APPLICATION RATES FOR ORNAMENTAL AND SHADE TREES (GREENHOUSE AND NURSERY GROWN)

Thorough coverage is essential when using **Thuricide 48 LV**. Use the lower rate for light to moderate infestations. Use the higher rates against heavier worm infestations.

| Pest | Fluid Ounces Per Acre | Dosage BIU Per Acre |
|-------------------|--------------------------|------------------------|
| Spring Cankerworm | 11 - 44 | 4 - 16 |
| Fall Cankerworm | 11 - 44 | 4 - 16 |
| Elm Spanworm | 11 - 44 | 4 - 16 |
| Tent Caterpillar | 11 - 44 | 4 - 16 |
| Gypsy Moth | 22 - 106 | 8 - 40 |

Directions

Apply when leaf expansion reaches 40-50% as infestation warrants. If eggs hatch over a long period of time or if reinfestation occurs, respray about 14 days after the first application.

| Pest | Fluid Ounces Per Acre | Dosage BIU Per Acre |
|----------------|--------------------------|------------------------|
| Spruce Budworm | 16 - 106 | 6 - 40 |

Directions

Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliage exposure.

| Pest | Fluid Ounces Per Acre | Dosage BIU Per Acre |
|------------------------------------|--------------------------|------------------------|
| Douglas Fir Tussock Moth | 11 - 44 | 4 - 16 |
| Jack Pine Budworm | 11 - 44 | 4 - 16 |
| Bagworms | 11 - 44 | 4 - 16 |
| California Oak Moth | 11 - 44 | 4 - 16 |
| Western Tussock Moth | 11 - 44 | 4 - 16 |
| Fruit Tree Leafroller | 11 - 44 | 4 - 16 |
| Mimosa Webworm | 11 - 44 | 4 - 16 |
| Redhumped Caterpillar | 5 - 32 | 2 - 12 |
| Fall Webworm | 5 - 22 | 2-8 |
| Pine Butterfly | 16 - 64 | 6 - 24 |
| Whitemarked Tussock Moth | 11 - 44 | 4 - 16 |
| Eastern/ Western Hemlock Looper | 22 -1 06 | 8 - 40 |
| Oakleaf Tier | 11 - 44 | 4 - 16 |

Directions

Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.

APPLICATION RATES FOR SMALLER SPRAY VOLUMES

| If Rate is | Use This Amount Per Gallon | |
|-----------------------------|----------------------------|--|
| 1/2 pt /acre or 100 gallons | 1/2 tsp. | |
| 1pt./acre or 100 gallons | 1 tsp. | |
| 2 pts./acre or 100 gallons | 2 tsps. | |
| 4 pts./acre or 100 gallons | 4 tsps. | |

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 prolonged storage at temperatures above 90° F. Protect from freezing.

Pesticide Disposal: Wastes resulting from this product must be disposed on on-site or at an approved waste disposal facility.

Container Disposal:

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of container in a sanitary landfill, or, by other procedures approved by state and local authorities.

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.

Thuricide 48 LV is a registered trademark of Certis USA, L.L.C.

Thuricide.48LV

BIOLOGICAL INSECTICIDE

Aqueous Concentrate for Ground Application For Control of Ornamental and Shade Tree Pests (non-commercial application only)

ACTIVE INGREDIENT:

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

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

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.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled. Avoid breathing spray mist. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. As a general precaution when exposed to potentially high concentrations of living microbial products such as this, wear a dust particle mask when mixing or applying this product.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside.
 Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS:

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters 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.

Net Contents: 5 gal. or 53 gal. EPA Reg. No. 70051-57 EPA Est. No. 70051-CA-001 Made in U.S.A.

Lot No .:

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

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

DIRECTIONS FOR NON-AGRICULTURAL APPLICATIONS

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of timber or wood products, or for research purposes.

MIXING

Suspension must be shaken or stirred before use. Pour the application rate amount of Thuricide 48 LV into the required volume of water in the spray tank. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 72 hours. Thuricide 48 LV is formulated to provide desirable coverage and stickability on leaf surfaces. Additional adjuvants, spreaders, or stickers may be added but are not essential.

Do not apply this product through any type of irrigation system.

GROUND APPLICATION

Use adequate water to obtain good foliar coverage. Wet foliage but do not allow excessive runoff. Apply the per acre application rates of Thuricide 48 LV with the following amounts of water:

100 gallons with high-gallonage hydraulic sprayers 10 gallons with mist blower

APPLICATION RATES

Thorough coverage is essential when using Thuricide 48 LV. Use the lower rate for light to moderate infestations. Use the higher rates against heavier worm infestations.

| Pest | Fluid Ounces Per Acre | Dosage BIU Per Acre |
|--|--|--|
| Spring Cankerworm Fall Cankerworm Elm Spanworm Tent Caterpillar Gypsy Moth | 11 - 44 11 - 44 11 - 44 11 - 44 22 - 106 | 4 - 16 4 - 16 4 - 16 4 - 16 8 - 40 |

Directions

Apply when leaf expansion reaches 40-50% as infestation warrants. If eggs hatch over a long period of time or if reinfestation occurs, respray about 14 days after the first application.

| Pest | Fluid Ounces Per Acre | Dosage BlU Per Acre |
|----------------|--------------------------|------------------------|
| Spruce Budworm | 16 - 106 | 6 - 40 |

Directions

Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliage exposure.

| Pest | Fluid Ounces Per Acre | Dosage BIU Per Acre |
|--------------------------|--------------------------|------------------------|
| Douglas Fir Tussock Moth | 11 - 44 | 4 - 16 |
| Jack Pine Budworm | 11 - 44 | 4 - 16 |
| Bagworms | 11 - 44 | 4 - 16 |
| California Oak Moth | 11 - 44 | 4 - 16 |
| Western Tussock Moth | 11 - 44 | 4 - 16 |
| Fruit Tree Leafroller | 11 - 44 | 4 - 16 |
| Mimosa Webworm | 11 - 44 | 4 - 16 |
| Redhumped Caterpillar | 5 - 32 | 2 - 12 |
| Fall Webworm | 5 - 22 | 2-8 |
| Pine Butterfly | 16 - 64 | 6 - 24 |
| Whitemarked Tussock Moth | 11 - 44 | 4 - 16 |
| Eastern/ Western | 22 -1 06 | 8 - 40 |
| Hemlock Looper | | |
| Oakleaf Tier | 11 - 44 | 4 - 16 |

Directions

Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.

Thuricide 48 LV may be used to protect trees and shrubs (non-commercial application only) as in:

- · Residential and municipal ornamental and shade tree areas
- Recreational areas such as campgrounds, golf courses, parks and parkways
- · Shelterbelts, rights of way and other easements

APPLICATION RATES FOR SMALLER SPRAY VOLUMES

| If Rate is | Use This Amount Per Gallon |
|-----------------------------|----------------------------|
| 1/2 pt./acre or 100 gallons | 1/2 tsp. |
| 1pt./acre or 100 gallons | 1 tsp. |
| 2 pts./acre or 100 gallons | 2 tsps. |
| 4 pts./acre or 100 gallons | 4 tsps. |

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 prolonged storage at temperatures above 90°F. Protect from freezing.

Pesticide and Container Disposal:

If empty: Do not reuse this container. Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

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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