

Thuricide[®] HPC-O

FOR HOME & GARDENS

BIOLOGICAL INSECTICIDE

Controls worms and caterpillars on Fruits, Vegetables, Ornamentals and Shade Trees
Notification Accepted

Easy-To-Mix Liquid Concentrate or Ready to Spray

Date: December 4, 2013

Reviewer: M. Glikes

For Organic Gardening



ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *kurstaki* strain SA-12 solids, spores and

Lepidopteran active toxins (At least 6 million viable spores per mg) 98.35%

OTHER INGREDIENTS: 1.65%

TOTAL: 100.00%

- 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: 4 (or 8, or 16, 32, 64) Fl. Oz.

EPA Reg. No. 70051-106

EPA Est. No. 70051-CA-001

Lot Number:

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

CERTIS

DIRECTIONS FOR USE

See back panel for additional Precautionary Statements

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling.

Environmental Hazards

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

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.

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.

Thuricide HPC-O for Home and Gardens is an easy to mix liquid concentrate. Properties include:

- Use only in Home Garden setting
- Kills worms and caterpillar stage insects, but has no effect on birds, earthworms, or beneficial insects, such as honeybees and ladybugs, when used as directed.
- Worms and caterpillars eat treated foliage then immediately stop feeding and damaging plants.
- Acceptable for use on edible plants up to the day of harvest.

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

Apply **Thuricide HPC-O** for Home and Gardens when worms or caterpillars are first noticed, then repeat at five (5) to seven (7) day intervals while they are active. Apply more frequently to control heavy infestations. Apply thoroughly to top and bottom of foliage. Reapply after heavy rains.

Thuricide HPC-O for Home and Gardens must be eaten by worms or caterpillars to be effective. After ingesting the insecticide, they immediately stop feeding, though they may otherwise appear to be unaffected for several days. Best results are obtained by treatments when worms are small; they must be actively feeding treated, exposed foliage. **Thuricide HPC-O** for Home and Gardens can be applied with a hand sprayer or a hose-end sprayer following manufacturer's directions. You may apply **Thuricide HPC-O** for Home and Gardens up to and on the day of harvest.

How to Mix and Apply: Always shake or stir **Thuricide HPC-O** for Home and Gardens thoroughly before use. Partially fill sprayer with water before adding the application rate amount of product, then mix in product thoroughly and add remaining amount of water.

Spray leaf surfaces thoroughly, top and bottom, for complete control. Agitate regularly while spraying. Use all of spray mixture within 24 hours.

Fruits and Vegetables: Mix 2.0 fluid ounces per 3 gallons water (4 tablespoon per gallon) for a hand sprayer and apply to all plant foliage, top and bottom, to cover an area of 1000 square feet. Apply at first sign of infestation and repeat at weekly intervals when needed to maintain control of the following insects:

Cabbage Looper on broccoli, cauliflower, collards, kale, mustard greens, turnip greens, cabbage, celery, lettuce, melons, and tomatoes.

Imported Cabbage Worm on broccoli, cabbage, cauliflower, collards, kale, mustard greens, and turnip greens

Tomato Hornworm on tomatoes.

Shade Trees & Ornamentals: Mix 2 fluid ounces per 3 gallons of water (4 teaspoons per gallon) for a hand sprayer or proportional amounts for a hose-end sprayer following manufacturer's directions. Apply at first sign of infestation and repeat at weekly intervals when needed to maintain control. Apply to thoroughly cover all foliage surfaces, top and bottom, of shade trees and ornamentals for control of the following leaf-feeding worms:

Bagworm	Spring Cankerworm
Fall Cankerworm	Gypsy Moth*
Tent Caterpillar	Elm Spanworm
Fall Webworm	

* Apply when buds swell, but before leaves are fully open. If eggs hatch over a long period of time or if reinfestation occurs, spray about 14 days after first application.

STORAGE AND DISPOSAL

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

Pesticide Disposal and Container Handling: For containers less than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. If empty:

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.

For containers greater than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, 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 EXPRESSOR IMPLIED WARRANTY OF THE FITNESS OF MERCHANTABILITY IS MADE

Hose-End Spray Directions

1. Attach to garden hose
2. Turn on water faucet
3. Activate the sprayer by pushing the vertical tab towards the horizontal knob. The vertical tab on the sprayer cannot be removed because of the horizontal tab, which allows for resealing of partially used bottles when in the "OFF" position. The Product channel is not opened until the control knob passes the vertical tab and is placed in the "ON" position.
4. When spraying is complete, or if you stop spraying at any time, move the horizontal tab back to the "OFF" position.
5. Rinse any residual product from the sprayer by passing through the "WATER" position on the sprayer.
6. Turn off the water at the faucet.
7. Remove the container from the garden hose, then rinse thoroughly and follow the directions in the Storage and Disposal section for storing or disposing of the container.

Other Optional Hose-End Sprayer Directions

CONNECT

1. Shake well before using
2. Connect sprayer to hose
3. Turn on water

SPRAY

1. Before spraying, point nozzle in the direction you want to spray
2. Bend small plastic tab back and turn knob clockwise to "OFF" position
3. Begin spraying

FINISH

1. To stop spraying, turn knob counter clockwise to "OFF" position.
2. Turn off water.
3. Relieve water pressure by bending plastic tab back, and turning knob to "ON" position until water slows to a drip. Then turn knob back to "OFF" position.
4. Disconnect sprayer from hose.

(Graphic of Hose-End Sprayer)

-OR-

1. Attach garden hose to spray nozzle and turn on water supply
2. Bend safety tab down and turn control to "Water". Clean water will spray.
3. Point nozzle toward item to be sprayed and turn water control knob to "On" to automatically mix with water.
4. Hold bottle level. Use with average water pressure. When finished spraying turn knob "off/closed" position.