

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505T)
1200 Pennsylvania Ave., N.W.

Washington, D.C. 20460

NOTICE OF PESTICIDE:

X Registration
Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

Date of Issuance:

2749-661

2/28/25

Term of Issuance:

Unconditional

Name of Pesticide Product:

Actylis Lambda-Cy Insecticide

Name and Address of Registrant (include ZIP Code):

Aceto Life Science L.L.C. d/b/a Actylis 4 Tri Harbor Court Port Washington, NY 11050

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration 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 registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

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.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:

Date:

2/28/25

Jacquelyn Herrick, Product Manager 03

Invertebrate-Vertebrate Branch 1, Registration Division (7505T)

EPA Form 8570-6

- 2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 2749-661."
- 3. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute 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 the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF:

Basic CSF dated 05/23/2024

If you have any questions, please contact Laura Rademacher at Rademacher.Laura@epa.gov.

Enclosure

RESTRICTED USE PESTICIDE

Due to Toxicity to Fish and Aquatic Organisms

For retail sale to and use only to Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

> LAMBDA-CYHALOTHRIN **GROUP** 3A **INSECTICIDE**

ACTYLIS LAMBDA-CY INSECTICIDE

For the Control of a Variety of Insect Pests on Selected Crops Contains the same active ingredient as Karate® Insecticide. For outdoor use only.

Active Ingredient:	
Lambda-cyhalothrin	11.4%
Other Ingredients:	88.6%
Γotal	100.0%
Contains petroleum distillates.	

Contains 1 lb. of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

WARNING/AVISO

Si usted no entiende esta etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

[See inside booklet for additional Precautionary Statement, [First Aid], and Directions for Use]

		ACCEPTED
ve Ingredient:		
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02/28/2025

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 2749-661

FIRST AID							
If swallowed	• Call a poison control center or doctor immediately for treatment advice.						
	• Do not give any liquid to the person.						
	• Do not induce vomiting unless told to do so by the poison control center or doctor.						
	Do not give anything by mouth to an unconscious person.						
If in eyes	Hold eye open and rinse slowly and gently with water 15-20 minutes.						
	• Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing						
	eye.						
	Call a poison control center or doctor for treatment advice.						
If on skin or clothing	Take off contaminated clothing.						
	Rinse skin immediately with plenty of water for 15-20 minutes.						
	Call a poison control center or doctor for treatment advice.						
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.						
	or label with you when calling a poison control center or physician or going for treatment. FOR S INVOLVING THIS PRODUCT, CALL CHEMTREC® TOLL FREE 1-800-424-9300 or 1-703-527-Days per Week).						

EPA Reg. No.	2749-	EPA Est. No.:

Note to Physician – Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Manufactured [By][For]: Aceto Life Sciences, LLC, d/b/a Actylis 4 Tri Harbor Court

Net Contents: __

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING - AVISO: May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment (PPE)

Mixers, loaders and applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate or viton ≥14 mils
- Shoes plus socks
- Protective eyewear

In addition, if the applicator is making foliar broadcast treatments using a mechanically pressurized handgun to conifers and deciduous trees in nurseries, wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination R, or P filters; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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 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

This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

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 and rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

Non-Target Organism Advisory: This product is highly toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and reduce pesticide risk to these organisms. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Physical and Chemical Hazards

Combustible liquid. Do not use or store near heat or open flame. Do not use this product in or on electrical

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.

This labeling must be in the possession of the user at the time of application.

USE RESTRICTIONS

- Do not apply as a foliar broadcast application using a mechanically pressurized handgun on orchards and vineyards.
- Do not apply as a soil, drench, or ground-directed application using a mechanically pressurized handgun on orchards and vineyards.
- Do not apply as foliar broadcast application using a mechanically pressurized handgun on: (Brassica (head and stem), Cucurbit Vegetables, Fruiting Vegetables, Garlic, Legume Vegetables, Lettuce (head and leaf), Onion (dry bulb), Tobacco, Tuberous and Corm Vegetables).
- Removable chemical extraction probes (also known as "stingers") used in suction/extraction systems must be rinsed within the pesticide container prior to removal.
- See the "SPECIFIC USE DIRECTIONS-AGRICULTURAL USES" and "NON-AGRICULTURAL USES" sections of this label for additional crop/use site restrictions.

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 enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours with the following exceptions:

• For hand or mechanically assisted detasseling of corn (field, pop, sweet) grown for seed and hand harvesting of sweet corn grown for grain, DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 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:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate or viton ≥14 mils
- Shoes plus socks

Non-Agricultural Use Requirements:

The requirements in this box apply to 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 or allow others to enter until sprays have dried.

FAILURE TO FOLLOW THE DIRECTIOINS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

WEED RESISTANCE MANAGEMENT

For resistance management, Actylis Lambda-Cy contains a Group 3A insecticide, lambda-cyhalothrin. Any insect population may contain individuals naturally resistant to Actylis Lambda-Cy and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of Actylis Lambda-Cy or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical
 information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological
 and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence
 of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist, certified crop advisors, and/or Aceto Life Sciences, LLC representative for any additional pesticide resistance management and/or integrated pest management recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact your Aceto Life Sciences, LLC representative.

BUFFER ZONES

Vegetative Filter Strips

Construct and maintain a vegetative filter strip, according to the width specified below, of grass or other permanent vegetation between the field edge and nearby down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing lambda-cyhalothrin onto fields where a maintained vegetative filter strip of at **least 25 feet** exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated agriculture is defined as irrigated farmland in the following states: WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX (west of I-35).
 - o For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
 - o The area of application is considered prime farmland (as defined in 7 CFR § 657.5).
 - Oconservation tillage is being implemented on the area of application. Conservation tillage is defined as any system that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can include mulch-till, no-till, or strip-till.
 - o A functional terrace system is maintained on the area of application.
 - Water and sediment control basins for the area of application are functional and maintained.
 - o The area of application is less than or equal to 10 acres.

Flooded rice fields are not required to have a vegetative filter strip. However, non-flooded rice (i.e., row rice) are subject to the vegetative filter strip requirements described above.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services.

https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175

Vegetative Buffer Strip in the State of New York

In the state of New York, a 25 ft. vegetated, non-cropped buffer strip untraversed by drainage tiles must be maintained between a treated field and a coastal salt marsh or stream that drains into a coastal salt marsh, for both aerial and ground application. For aerial applications, the 25 ft. vegetated non-cropped buffer strip for runoff protection would be part of the larger 150 ft. buffer strip (or 450 ft. buffer strip for ULV application) required for spray drift.

Buffer Zones to Aquatic Habitats

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Ultra Low Volume (ULV) Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

SPRAY DRIFT MANAGEMENT

Mandatory Spray Drift Management

Aerial Applications:

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.

Airblast Applications:

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 mph at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select nozzle and pressure that deliver a medium or coarser droplet size (ASABE \$572).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

Boomless Ground Applications:

• Applicators are required to select nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572).

- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

Spray Drift Advisories

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

Importance Of Droplet Size

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles
 designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles Follow nozzle manufacturers' recommendations for setting up nozzles.
- Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

Boom Height – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

Release Height - Aircraft

Higher release heights increase the potential for spray drift.

Shielded Sprayers

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

Handheld Technology Applications

Take precautions to minimize spray drift.

Temperature And Humidity

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

Temperature Inversions

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

CHEMIGATION

Sprinkler Irrigation Application

Apply Actylis Lambda-Cy at rates and timing described elsewhere in this label. As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types (see TANK MIX APPLICATION) rates and mixing instructions. These recommendations should be proven, through

university and extension field trials, to be effective with Actylis Lambda-Cy applied by chemigation.

Check the irrigation system to insure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the specified rate of Actylis Lambda-Cy into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1-0.2 acre-inch of water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the main irrigation line ahead of a right angle turn in the line to insure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.

In addition to the above recommendations, if application is being made during a normal irrigation set of a stationary sprinkler, the specified rate of Actylis Lambda-Cy for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

It is not recommended that Actylis Lambda-Cy be applied through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year

Use Precautions - Sprinkler Irrigation Application

- A. Apply this product only through (sprinkler including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- C. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- D. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- E. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- F. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- G. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- H. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- I. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- J. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- K. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- L. Any alternatives to the above required safety devices must conform to the list of EPA-approved alternative

devices.

- M. Do not apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of treated water.
- N. Do not apply through chemigation systems connected to public water systems.

PRODUCT INFORMATION

Initial and residual control is contingent upon thorough crop coverage. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gallons per acre by air or 10 gallons per acre by ground unless otherwise specified in this label. When foliage is dense or pest pressure is high (heavier insect or egg pressure, larger larval stages), use of higher application volumes and/or higher use rates may improve initial and residual control.

For cutworm control, Actylis Lambda-Cy may be applied before, during or after planting. For soil incorporated applications, use higher rates for improved control.

Tank Mix Applications

Actylis Lambda-Cy may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. Adjuvants such as spreader stickers, wetting agents, and penetrates may also be added. Use a small volume mixing test with the other products to confirm compatibility. If other chemicals are added to the applicator tank, Actylis Lambda-Cy should be added last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours. It is the user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

POLLINATOR PROTECTION

Pollinator Best Management Practices

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators.

Managed Pollinator Protection Plans

Managed pollinator protection plans are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

How to Report Bee Kills

It is recommended that users contact both the state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at beekill@epa.gov. To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: http://npic.orst.edu/reg/state_agencies.html.

SPECIFIC USE DIRECTIONS – AGRICULTURAL USES

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
ALAFAFA AND ALFALFA GROWN FOR SEED	Alfalfa Caterpillar Army cutworm Cutworm spp. Green Cloverworm Leafhopper species Looper spp. Threecornered Alfalfa Hopper Velvetbean Caterpillar Webworm spp.	0.015 - 0.025	1.92 - 3.20	Apply only to fields planted to pure stands of alfalfa. Apply as required by scouting. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gallons per acre by air

	Alfalfa Seed Chalcid (Adult) Alfalfa Weevil Armyworm Bean Leaf Beetle (Adult) Blister Beetle spp. Blue Alfalfa Aphid Clover Leaf Weevil spp. Clover Root Borer (Adult) Clover Root Curculio spp. (Adult) Clover Stem Borer (Adult) Corn Earworm Cowpea Aphid Cowpea Curculio (Adult) Cucumber Beetle Spp. (Adult) Egyptian Alfalfa Weevil Fall Armyworm¹ Grape Colaspis (Adult) Grasshopper spp. Green June Beetle (Adult) Green Peach Aphid³ Japanese Beetle (Adult) Meadow Spittlebug Mexican Bean Beetle Pea Aphid Pea Weevil (Adult) Plant Bug spp. Including Lygus spp.³ Spotted Alfalfa Aphid Stink Bug spp. Sweet Clover Weevil (Adult) Thrips spp.⁴ Western Yellow-striped Armyworm Whitefringed Beetle spp. (Adult) Yellow-striped Armyworm Beet Armyworm¹ Beet Armyworm¹.3	0.02 - 0.03	3.84	or 10 gallons per acre by ground. When foliage is dense and/or pest populations are high 5-10 gallons per acre by air or 20 gallons per acre by ground and higher use rates are recommended. Use higher labeled rates for increased residual control. Avoid application when bees are actively foraging by applying during the early morning or during the evening hours. Be aware of bee hazard resulting from a cool evening and/or morning dew. It may be advisable to remove bee shelters during and for 2-3 days following application. Avoid direct application to bee shelters. 1 Use higher labeled rates for large larvae. 2 Suppression only. 3 See resistance statement under PRODUCT INFORMATION. 4 Does not include Western Flower Thrips.
Pastrictions:	Blotch Leafminer ³ Spider Mites ¹			

- Do not apply more than 0.03 lb. a.i. (0.24 pt. or 3.84 fl. oz. of product)/A per cutting.
- Do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz. of product)/A per season.
- Do not apply within 1 day of harvest for forage or within 7 days of harvest for hay.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CANOLA	Cutworm spp.	0.015 -0.03	1.92 - 3.84	Apply as required by scouting, usually at
	Armyworm spp.			intervals of 5 or more days. Base timing and
	Diamondback Moth			frequency of applications upon insect
	Flea Beetle			populations reaching locally determined
	Cabbage Seedpod			economic threshold.

Weevil Lygus Bug Grasshoppers Cabbage Aphid 0.03	Apply with ground or air equipmes sufficient water to obtain full cov foliage. When applying by air, ap of 2 gals. of water/A.	erage of
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- Do not apply within 7 days of harvest.
- Do not apply more than 0.09 lb. a.i. (0.72 pt. or 11.52 fl. oz. of product)/A per year.

		Rate		
Crop	Target Pests	lb. a.i.	fl. oz.	Remarks
CEREAL GRAINS: Corn (At- Plant): Field Corn Popcorn Seed Corn Sweet Corn	Corn Rootworm Larvae (Western, Northern, Southern, Mexican) Cutworm spp. Seed corn Maggot Seed corn Beetle Lesser Cornstalk Borer White Grub spp. Wireworm spp. Red Imported Fire Ant ¹	0.001779 lb. ai per 1,000 ft. of row ²	0.235 fl. oz. per 1,000 ft. of row ²	Banded Applications: Apply at planting as a 5-7 inch T-band sprayed across the open seed furrow between the furrow openers and the press wheels or as a band application behind the press wheel. In-Furrow Applications: Apply into the seed furrow through spray nozzles or microtubes behind the planter furrow openers and in front of the press wheel. Apply a minimum of 3 gals. of finished spray/A. ¹ Suppression only.

- Do not harvest or graze livestock or cut treated crops for feed within 21 days of at-plant application.
- Do not apply more than 0.032 lb. a.i. (0.26 pt. or 4.10 fl. oz. of product)/A per crop at-plant.
- For field corn, popcorn, and seed corn, do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz. of product/A per crop from atplant and foliar applications.
- For sweet corn, do not apply more than 0.48 lb. a.i. (3.84 pts. or 61.44 fl. oz. of product)/A per crop from at-plant and foliar applications.

² Lbs. a.i. and fl. oz./A of Lambda-Cyhalothrin applied at 0.235 fl. oz./1000 ft. of row for various row spacings:							
Row Spacing	40''	38"	36"	34"	32"	30"	
Linear Ft./A	13,068	13,756	14,520	15,374	16,335	17,424	
Lbs. a.i./A	0.024	0.025	0.027	0.028	0.030	0.032	
FI. oz./A	3.06	3.24	3.42	3.59	3.84	4,11	

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CEREAL GRAINS: Corn (Foliar): Field Corn Popcorn Seed Corn	Cutworm spp. Western Bean Cutworm¹ Corn Earworm¹ Green Cloverworm Meadow Spittlebug	0.015 - 0.025	1.92 - 3.20	Apply as required by scouting or locally prescribed corn growth stages, usually at intervals of 7 or more days. Base timing and frequency of applications s based upon insect populations reaching locally determined economic thresholds or other locally recommended methods. Apply with ground or air equipment using sufficient water and application methods to obtain full coverage
	Tobacco Budworm ¹ , ⁴ European Corn Borer ¹	0.02 - 0.03	2.56 - 3.84	of target location. When applying by air, apply in a minimum of 2 gals. of water/A.
	Southwestern Corn			For chinch bug control, begin applications when bugs

Borer Stalk Borer¹ Hop Vine Borer¹ Armyworm² Fall Armyworm² Yellow-striped Armyworm² Webworm spp. Flea Beetle spp. Western Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Southern Corn Rootworm Beetle (Adult) Mexican Corn Rootworm Beetle (Adult) Mexican Corn Rootworm Beetle (Adult) Sean Leaf Beetle Cereal Leaf Beetle Cereal Leaf Beetle Japanese Beetle (Adult) Stink Bug spp. Grasshopper spp. Corn Leaf Aphid³ Bird Cherry-Oat Aphid³ English Grain Aphid³			migrate from small grains or grass weeds to small corn. Direct spray to the base of corn plants. Repeat applications at 3-5 day intervals if needed. Actylis Lambda-Cy may only suppress heavy infestations and/or subsequent migrations. For control of adult corn rootworm beetles (<i>Diabrotica</i> species) as part of an aerial-applied corn rootworm control program, use a minimum of 3.84 fl. oz/A (0.03 lb. a.i./A). 'For control before the larva bores into the plant stalk or ear. 2 Use higher rates for large larvae. 3Suppression only. 4See resistance statement under PRODUCT INFORMATION.
Beet Armyworm ^{2, 4} Chinch Bug Green Bug ^{3,4} Southern Corn Leaf Beetle Mexican Rice Borer ¹ Rice Stalk Borer ¹ Sugarcane Borer ¹	0.03	3.84	

- Do not apply within 21 days of harvest.
- Do not allow livestock to graze in treated areas or harvest treat corn forage as feed for meat or dairy animals within 1 day after last treatment. Do not feed treated corn fodder or silage to meat or dairy animals within 21 days after last treatment.
- Do not apply more than 0.03 lb. a.i. (0.24 pt. or 3.84 fl. oz. of product)/A in a single application.
- Do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz. of product)/A per crop from at-plant and foliar applications.
- Do not apply more than 0.06 lb. a.i. (0.48 pt. or 7.68 fl. oz. of product) after silk initiation.
- Do not apply more than 0.03 lb. a.i. (0.24 pt. or 3.84 fl. oz. of product) after corn has reached the milk stage (yellow kernels with milky fluid).
- Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours with the following exceptions:
 - For hand or mechanically assisted detasseling of corn (field, pop) grown for seed, do not enter or allow worker entry into treated areas during the restricted- entry interval (REI) of 48 hours.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
Crop CEREAL GRAINS: Corn (Foliar): Sweet Corn	Corn Earworm Fall Armyworm¹ Southern Armyworm¹ Beet Armyworm¹ Seet Armyworm¹ Cutworm spp. Western Bean Cutworm Webworm spp. European Corn Borer Southwestern Corn Borer Common Cornstalk Borer Western Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Southern Corn Rootworm Beetle (Adult) Mexican Corn Rootworm Beetle (Adult) Japanese Beetle (Adult) Japanese Beetle (Adult) Flea Beetle spp. Tarnished Plant Bug Stink Bug spp. Chinch Bug Aster Leafhopper			Remarks Apply as required by scouting, or locally prescribed corn growth stages, usually at intervals of 4 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds or other locally recommended methods and should be targeted for control before insects enter the stalk or ear. Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage and ears (if present). When applying by air, apply in a minimum of 2 gals. of water/A. For control of adult corn rootworm beetles (Diabrotica species) as part of an aerial applied corn rootworm control program, use a minimum of 3.2 fl. oz. of product/A (0.025 lb. a.i./A). 1 Use higher rates for large larvae. 2 Suppression only. 3 See resistance statement under PRODUCT INFORMATION.
	Grasshopper spp.			
	Aphid spp. ^{2,3}			
	Spider Mite spp. ²	0.02	2.04	
	Corn Silkfly (Adult) ²	0.03	3.84	

- Do not apply within 1 day of harvest.
- Do not allow livestock to graze in treated areas or harvest treated corn forage as feed for meat or dairy animals within 1 day after last treatment.
- Do not feed treated corn fodder or silage to meat or dairy animals within 21 days after last treatment.
- Do not apply more than 0.03 lb. a.i. (0.24 pt. or 3.84 fl. oz. of product)/A in a single application.
- Do not apply more than 0.48 lb. a.i. (3.84 pts. or 61.44 fl. oz. of product)/A per season.
- Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours with the following exceptions:
 - o For hand or mechanically assisted detasseling of sweet corn grown for seed and hand harvesting of sweet corn grown for grain, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

		Ra	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CEREAL GRAINS: Rice Wild Rice	True Armyworm Fall Armyworm Yellow-striped Armyworm Rice Water Weevil (Adult) Rice Stink Bug Chinch Bug Grasshopper spp. Leafhopper spp. Bird Cherry-Oat Aphid Greenbug Sharpshooter spp. Yellow Sugarcane Aphid Riceworm	0.025 - 0.04	3.20 - 5.12	See additional instructions below. ¹ For control before the larvae bores into the plant stalk.
	European Corn Borer ¹ Mexican Rice Borer ¹ Rice Seed Midge ¹ Rice Stalk Borer ¹ Sugarcane Borer ¹	0.03 - 0.04	3.84 - 5.12	

REMARKS:

- Mixers/loaders supporting aerial applications to wild rice at a rate of 0.04 lb. a.i. per acre, and treating 1200 acres (or more) per day must wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination R, or P filters; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters.
- Apply as required by scouting. Base timing and frequency of application upon insect populations reaching locally determined economic thresholds. Determine the need for repeat applications, usually at intervals of 5-7 days, by scouting.
- Actylis Lambda-Cy can be safely used when propanil products are being used for weed control.
- Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water (or a total carrier volume)/A but ensure sufficient volume is used to provide adequate coverage. In addition, adding an emulsifiable crop oil (e.g., 1 pt./A) when lower aerial application volumes are used is recommended to help improve coverage, reduce evaporation, and improve efficacy. Apply a minimum of 10 gallons/A by ground.
- For control of rice water weevil in dry seeded rice, make a foliar application as indicated by scouting for the presence of adults and/or feeding scars, usually within a time frame of 0-5 days after permanent flood establishment. Do not exceed 10 days from starting permanent flood until insecticide application unless scouting indicates weevils have not been previously present. Adults may also be treated at later stages of rice development to reduce overwintering populations.
- For control of rice water weevil in water seeded rice, make the first foliar application after pinpoint flood as indicated by scouting for the presence of adults and/or feeding scars usually when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3-5 days after the initial treatment and, if needed, apply a second application within 7-10 days of the first application. Adults may also be treated at later stages of rice development to reduce overwintering populations.
- California: In addition to above directions for control of rice water weevil in water seeded rice, Actylis Lambda-Cy may be applied at the 1- to 3-leaf growth stage with the majority at the 2- leaf growth stage.
- Adults are vulnerable on levees and in the water. Larvae are vulnerable while feeding on the leaf prior to entering the soil. Monitor for adults, based upon field history and density of population. Monitor field edges and levee areas for adults. Treat in the following manner: (a) spray the inside perimeter of the field, or (b) spray the entire field.
- Greenbug is known to have many biotypes. Actylis Lambda-Cy may only provide suppression. If satisfactory control is not achieved with the first application of Actylis Lambda-Cy, a resistant biotype may be present. Use alternate chemistry for control.
- For control of stem borers, scout fields when rice growth is near panicle differentiation, for early symptoms of damaging populations exhibited as discoloration (orange-tan) around the junction of the leaf sheath and leaf blade which is caused by feeding of young larvae within the sheath. Applications must be made before larvae bore into rice stems. Make the first application at panicle differentiation to 2 inch panicle for partial control. Make the second application at boot to heading for maximum control. All rice varieties are susceptible to stem borer damage, but Cocodrie and Priscilla are particularly susceptible.

- Do not release floodwater within 7 days of an application.
- Do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz. of product)/A per season.
- Do not apply more than 0.04 lb. a.i. (0.32 pt.)/A within 21 to 27 days of harvest.
- Do not apply within 21 days of harvest.
- Do not use treated rice fields for the aquaculture of edible fish and crustacea.
- Do not apply as an ultra-low volume (ULV) spray.

		Rat	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CEREAL GRAINS: Sorghum (Grain)	Cutworm spp. Sorghum Midge	0.015 - 0.02	1.92 - 2.56	Apply as required by scouting, usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds.
	Armyworm Beet Armyworm ^{1,3} Fall Armyworm ¹ Yellow-striped Armyworm ¹ Corn Earworm Webworm spp. European Corn Borer ² Southwestern Corn	0.02 - 0.03	2.56 - 3.84	Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gals. of water/A. For sorghum midge control, begin applications when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 5-day intervals if needed. For chinch bug control, begin applications
	Borer ² Lesser Cornstalk Borer ² Flea Beetle spp. Stink Bug spp. Grasshopper spp. Chinch Bug	0.03	3.84	when bugs migrate from small grains or grass weeds to small sorghum. Direct spray to the base of sorghum plants. Repeat applications at 3- to 5-day intervals if needed. Actylis Lambda-Cy may only suppress heavy infestations
	Mexican Rice Borer ² Rice Stalk Borer ² Sugarcane Borer ²			and/or subsequent migrations. ¹ Use higher label rates for large larvae only. ² For control before the larva bores into the plant stalk. ³ See resistance statement under PRODUCT INFORMATION.

- Do not apply within 30 days of harvest.
- Do not apply more than 0.08 lb. a.i. (0.64 pt. or 10.24 fl. oz. of product)/A per season.
- Do not apply more than 0.06 lb. a.i. (0.48 pt. or 7.68 fl. oz. of product)/A per season after crop emergence.
- Do not apply more than 0.02 lb. a.i. (0.16 pt. or 2.56 fl. oz. of product)/A per season once crop is in soft dough stage.

		Rat	e	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
Crop CEREAL GRAINS: Barley Buckwheat Oats Rye Wheat Wheat Hay Triticale	Target Pests Cutworm spp. Army Cutworm Armyworm Fall Armyworm Yellow-striped Armyworm Flea Beetle spp. Cereal Leaf Beetle Stink Bug spp. English Grain Aphid¹ Russian Wheat Aphid¹ Bird Cherry-Oat Aphid¹ Grasshopper spp.			Apply as required by scouting, usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A. For chinch bug control. repeat applications at 3-to 5-day intervals if needed. Actylis Lambda-Cy may only suppress heavy infestations and/or
	Grasshopper spp. Orange Blossom Wheat Midge Hessian Fly ⁴ Grass Sawfly Chinch Bug Greenbug ^{1,2} Corn Leaf Aphid ² Mite Spp. ²	0.025 - 0.03 0.03	3.20 - 3.84	migrations. Greenbug is known to have many biotypes. Actylis Lambda-Cy may provide suppression only. In this situation, a second application using an alternative chemistry may be needed. Best control is obtained before insects begin to roll leaves. Once wheat has started to boot, Actylis Lambda-Cy may provide suppression only. Higher label rates and increased coverage will be necessary. Suppression only. See resistance statement under PRODUCT INFORMATION. Make applications when adults emerge.

- Do not apply within 30 days of harvest.
- Do not allow livestock to graze in treated areas or harvest treated wheat forage as feed for meat or dairy animals within 7 days after last treatment. Do not feed treated straw to meat or dairy animals within 30 days after last treatment.
- Do not apply more than 0.06 lb. a.i. (0.48 pt. or 7.68 fl. oz. of product) /A per season.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
BRASSICA	Alfalfa Looper	0.015 - 0.025	1.92 - 3.20	Apply as required by scouting, usually at
HEAD AND	Cabbage Looper			intervals of 5 or more days. Base timing and
STEM CROPS:	Imported			frequency of applications upon insect
Broccoli	Cabbageworm			populations reaching locally determined
Brussels Sprouts	Southern			economic thresholds.
Cabbage	Cabbageworm			Apply with ground or air equipment using
Cavalo Broccolo	Cutworm spp.			sufficient water to obtain full coverage of
Cauliflower	Cabbage Webworm			foliage. When applying by air, apply in a
Chinese Broccoli	Diamondback Moth ³	0.02 - 0.03	2.56 - 3.84	minimum of 2 gals. of water/A.
(gai lon)	Armyworm			minimum of 2 gaist of water, in
Chinese Cabbage	Beet Armyworm ^{1,3}			1E
(napa)	Fall Armyworm ¹			¹ For control of first and second instar only.
Chinese	Yellow-striped			² Suppression only.
Mustard	Armyworm			³ See resistance statement under PRODUCT
Cabbage	Corn Earworm			INFORMATION.
(gai choy)	Flea Beetle spp.			
Kohlrabi	Japanese Beetle			
	(Adult)			
	Vegetable Weevil			
	(Adult)			
	Grasshopper spp.			
	Leafhopper spp.			
	Plant Bug spp.			
	including			
	Lygus spp ³			
	Stink Bug spp.			
	Meadow Spittlebug			
	Aphid spp. ^{2,3}			
	Whitefly spp. ^{2,3}			
	Thrips spp. ²			
	Spider Mite spp. ²			

- Do not apply within 1 day of harvest.
 Do not apply more than 0.24 lb. a.i. (1.92 pts. or 30.72 fl. oz. of product)/A per season.

		Ra	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
Crop	Cutworm spp. Tobacco Thrips Soybean Thrips Lygus Bug spp.³ Pink Bollworm Cabbage Looper Cotton Leafperforator Saltmarsh Caterpillar Cotton Leafworm Cotton Fleahopper Cotton Bollworm Tobacco Budworm³ Boll Weevil Fall Armyworm Beet Armyworm¹ Beet Armyworm¹ Buropean Corn Borer Brown Stink Bug Green Stink Bug Southern Green Stink Bug Two-spotted Spider Mite²			Remarks Apply as required by scouting, usually at intervals of 5-7 days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. Applications may also be made with equipment adapted and calibrated for ULV sprays. Actylis Lambda-Cy may be mixed with oncerefined vegetable oil and applied in a minimum of at least 1 qt. of finished spray/A. Under light bollworm/budworm infestation levels, 0.02 lb. a.i./A may be applied in conjunction with intense field monitoring, For boll weevil control spray on a 3- to 5-day schedule. When applied according to label directions for control of cotton bollworm and tobacco budworm, Actylis Lambda-Cy also provides ovicidal control of unhatched <i>Heliothis</i> spp, eggs.
	Cotton Aphid ^{2,3} Bandedwing Whitefly ^{2,3} Sweetpotato Whitefly ^{2,3}			¹ For control of first and second instar only. ² Suppression only. ³ See resistance statement under PRODUCT INFORMATION.

- Do not apply within 21 days of harvest.
- Do not graze livestock in treated areas.
- Do not apply more than 0.2 lb. a.i. (1.6 pts. or 25.6 fl. oz. of product)/A per season.
- Do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.

		R	ate	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CUCURBIT	Armyworm spp. ¹	0.02 - 0.03	2.56 - 3.84	Ground application: Apply in sufficient
VEGETABLES CROP	Blister Beetle spp.	0.02	2.00	spray volume to obtain full coverage of the
GROUP	Cabbage Looper			foliage or target area. When applied by
Including:	Corn Earworm			ground, a minimum of 10 gal. Solution per
Chayote (fruit)	Cricket spp.			acre is recommended.
Chinese Waxgourd	Cucumber Beetle spp.			
(Chinese preserving	(adults)			Air application: Apply in a minimum of 2
melon)	Cutworm spp.			gals. Per acre or sufficient spray volume to
Citron Melon	Flea Beetle spp.			obtain full coverage of the foliage or target
Cucumber	Grasshopper spp.			area.
Gherkin	June Beetle spp.			Monitor insect populations to determine
Gourd (edible)	Leaffooted Bug			timing and frequency of applications. Scout
Lagenaria spp. –	Leafhopper spp.			fields at a minimum of 5 day intervals.
Includes:	Lygus Bug spp.'			Apply in sufficient volume to ensure
hyotan, cucuzza	Melonworm			Apply in sufficient volume to ensure sufficient coverage of foliage.
Luffa acutangula,	Pickleworm			sufficient coverage of foliage.
Includes:	Plant Bug spp.			Insects that bore or tunnel into leaves, vines,
hechima, Chinese	Rindworm spp.			stems or fruit must be controlled before
okra	complex			penetration. Only exposed insects (larvae
Momordica spp.	Saltmarsh Caterpillar			and/or adults) can be controlled with foliar
Includes:	Squash Beetle			applications of Actylis Lambda-Cy.
balsam apple,	Squash Bug spp.			
balsam pear,	Squash Vine Borer			¹ See resistance statement under
bitter melon,	spp.			PRODUCT INFORMATION.
Chinese cucumber	Stink Bug spp.			² Does not include Western Flower
Muskmelon	Thrips spp. 1,2			Thrips.
(hybrids and/or	Tobacco Budworm ¹			³ Suppression only.
cultivars of Cucumis	Webworm spp.			
melo) –				
Includes:				
true cantaloupe				
cantaloupe,				
casaba,	Aphid spp. ¹	0.03	3.84	
crenshaw melon,	Leafminer spp. ^{1,3}			
golden pershaw	Spider Mite spp. ³			
melon	Whitefly spp. ^{1,3}			
honeydew melon,	controlly approximately ap			
honey balls,				
mango melon				
Persian melon,				
pineapple melon,				
Santa Claus melon,				
snake melon				
Pumpkin				
Squash, summer				
(Cucurbita pepe var.				
melopepo) –				
Includes:				
crookneck squash				
straightneck squash				
vegetable marrow,				
zucchini				
Squash, Winter				
(Cucurbita maxima,				
C. moschata) –				
Includes:				
Butternut squash,				

1 . 1		
calabaza,		
hubbard squash		
(C. mixta: C. pepo) –		
Includes:		
acorn squash,		
spaghetti squash		
Watermelon – Includes:		
Hybrids and/or		
varieties of Citrulius		
lanatus		

- Do not apply more than 0.18 lb. a.i. (1.44 pts. or 23 fl. oz. of product)/A per season.
- Do not apply within 1 day of harvest.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
FRUITING VEGETABLES: Tomato and Tomatillo	Cabbage Looper Cutworm spp. Hornworm spp. Tomato Fruitworm	0.015 - 0.025 0.02 - 0.03	1.92 - 3.20 2.56 - 3.84	Apply as required by scouting, usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined
Peppers (bell and non-bell) Eggplant Ground Cherry Pepino	Tomato Fruitworm Tobacco Budworm³ Tomato Pinworm Beet Armyworm¹,³ Southern Armyworm¹ Yellow-striped Armyworm¹ Fall Armyworm¹ European Corn Borer⁴ Leafminer spp.² Colorado Potato Beetle³ Flea Beetle spp. Grasshopper spp. Leafhopper spp. Leafhopper spp. Aphid spp²,³ Whitefly spp²,³ Meadow Spittlebug Stink Bug spp. Plant Bug spp. Stalk Borer ⁴ Blister Beetle spp. Japanese Beetle (Adult) Pepper Weevil (Adult)² Vegetable Weevil (Adult) Tomato Psyllid²,³ Spider Mite spp.² Thrips⁵ Cucumber Beetle spp. (Adult)	0.02 - 0.03	2.56 - 3.84	populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A. ¹For control of first and second instar only. ²Suppression only. ³See resistance statement under PRODUCT INFORMATION. ⁴For control before the larva bores into the plant stalk or fruit. ⁵Does not include Western Flower Thrips.

- Do not apply within 5 days of harvest.
- Do not apply more than 0.36 lb. a.i. (2.88 pts. or 46.08 fl. oz. of product)/A per season.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
GRASS	Army Cutworm	0.015 - 0.025	1.92 - 3.20	Ground application: Apply in sufficient spray
FORAGE,	Cutworm spp.			volume to obtain full coverage of the foliage or
FODDER, AND	Essex Skipper			target area.
HAY	Range Caterpillar			Air application: Apply in a minimum of 2 gals.
Pasture and	Striped Grass			per acre or sufficient spray volume to obtain full
Rangeland	Looper			coverage or target area.
Grass, Grass	Beet Armyworm	0.02 - 0.03	2.56 - 3.84	Monitor insect populations to determine timing
Grown for Hay or	Billbug spp. ³			and frequency of applications. Scout fields at a
Silage, Grass	Bird Cherry-Oat			minimum of 5 day intervals.
Grown for Seed	Aphid ¹			
	Black Grass Bug			Apply in sufficient volume to ensure sufficient
	Black Turfgrass			coverage of foliage.
	Beetle (Adult)			Chinch bugs: Actylis Lambda-Cy may only
	Blue Stem Midge			suppress heavy infestations and/or migrations. In
	Cereal Leaf Beetle			this situation, a second application using an
	Chinch Bug			alternative chemistry may be needed.
	Crane Fly spp.			· ·
	Cricket spp.			Greenbug: Greenbug is known to have many
	English Grain			biotypes. Actylis Lambda-Cy may provide
	Aphid ¹			suppression only. In this situation, a second
	Fall Armyworm			application using an alternative chemistry may
	Flea Beetle spp.			be needed.
	Grass Mealybug			Pasture and rangeland grass: May be used for
	Grass Sawfly			grazing or cut for forage 0 days after
	(Adult)			application. Do not cut grass to be dried and
	Grasshopper spp.			harvested for hay until 7 days after the last
	Green June Beetle			application.
	(Adult)			Grass grown for seed: Straw and mature seed
	Greenbug ^{1,2}			(seed screenings) may be used as feed 7 days
	Japanese Beetle			after the last application. Regrowth of grass
	(Adult)			grown for seed may be used for grazing, cut for
	Katydid spp.			forage or cut to be dried and harvested for hay.
	Leafhopper spp.			101 age of our to be affect and harvested for hay.
	Mite spp.			¹ Best control is obtained before insects
	Russian Wheat			begin to roll leaves.
	Aphid ¹			² See resistance statement under
	Southern			PRODUCT INFORMATION
	Armyworm			³ Suppression only.
	Spittlebug spp.			,
	Stink Bug spp.			
	Sugarcane Aphid			
	Thrips spp.			
	Tick spp.			
	True Armyworm			
	Webworm spp.			
	Yellowstriped			
D () ()	Armyworm			
Restrictions:				

- Do not apply more than 0.03 lb. a.i. (0.24 pt. or 3.84 fl. oz. of product)/A per cutting for pasture, rangeland and grasses grown for seed. A minimum re-treatment interval (RTI) of 30 days is required for pastures and rangeland receiving 0.03 lb. a.i./A which have not been cut between applications.
- Do not apply more than 0.09 lb. a.i. (0.72 pt. or 11.52 fl. oz. of product)/A per season.

		Rat	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
LEGUME VEGETABLES (BEANS AND PEAS): Edible Podded (only) Canavalia gladiatasword bean Canavalia ensiformis jackbean Glycine max - Soybean (immature seed) Edible Podded, Succulent Shelled or Dried Shelled	Cutworm spp. Green Cloverworm Imported Cabbageworm Saltmarsh Caterpillar Velvetleaf Caterpillar Mexican Bean Beetle			Apply as required by scouting. Usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A.
Phaseolus spp includes: field, kidney, lima, navy, pinto, runner, snap, tepary, and wax beans Vigna spp includes: adzuki, asparagus, moth, mung, rice, urd and yard long beans, black-eyed pea, catjang, Chinese longbean, cowpea, Crowder pea, and Southern pea Pisum spp includes: dwarf, edible-pod, English,				² Use higher label rates for large larvae. ³ For suppression only. ⁴ See resistance statement under PRODUCT INFORMATION. ⁵ Does not include Western Flower Thrips.

G 11 1		0.02.0.02	2.7.5.2.04	
field, garden, green,	Corn Earworm	0.02 - 0.03	2.56 - 3.84	
snow and sugar	Painted Lady Butterfly			
snap peas	(larva)			
Cajanus cajan -	European Corn Borer			
Pigeon pea	Looper spp.			
Succulent	Western Bean			
Shelled or Dried	Cutworm			
Shelled	Tobacco Budworm ⁴			
Vicia faba	Armyworm ²			
broadbean	Fall Armyworm ²			
(favabean)	Yellow-striped			
Dried Shelled (only)	Armyworm ²			
Lupinus spp	Western Yellow-			
includes: grain,	striped Armyworm ²			
sweet, white and	Bean Leaf			
sweet white lupines	skeletonizer			
Cicer arietimum -	Webworm spp.			
Chickpea (garbanzo	Leaftier spp.			
bean)	Alfalfa Caterpillar Stalk Borer ¹			
Cyamopsis	Cucumber Beetle			
tetragonoloba -				
guar Lablab pupureus -	spp. (Adult) Corn Rootworm			
Lablab bean	Beetle spp. (Adult)			
(hyacinth bean)	Flea Beetle spp.			
Lens esculata -	(Adult)			
Lentils	Curculio and Weevil			
Lenuis	spp. ¹ (foliage and			
	pod feeding adults			
	and larvae)			
	Blister Beetle spp.			
	Bean Leaf Beetle			
	Japanese Beetle			
	(Adult)			
	Leafhopper spp.			
	Flea Hopper spp.			
	Three-cornered			
	Alfalfa Hopper			
	Meadow Spittlebug			
	Stink Bug spp.			
	Plant Bug spp.			
	Including			
	Lygus spp. ⁴			
	Grasshopper spp.			
	Thrips spp ^{4,5}			
	Aphid spp ⁴			
	Beet Armyworm ^{3,4}	0.03	3.84	
	Soybean Looper ^{3,4}			
	Lesser Cornstalk			
	Borer ³			
	Leafminer spp ^{3,4}			
	Whitefly spp ^{3,4}			
	Spider Mite Spp ³			
Restrictions:				

- For edible podded and succulent shelled legume vegetables, do not apply within 7 days of harvest.
- For dried shelled legume vegetables, do not apply within 21 days of harvest.
- Do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz. of product)/A per season.
- For succulent and dried shelled peas and beans, do not graze livestock in treated areas or harvest vines for forage or hay.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
LEGUME VEGETABLES: Soybean	Corn Earworm Velvetbean Caterpillar Green Cloverworm Cabbage Looper Painted Lady (Thistle) Caterpillar Saltmarsh Caterpillar Woollybear Caterpillar Cutworm spp. Bean Leaf Beetle Mexican Bean Beetle Western Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Southern Corn Rootworm Beetle (Adult) Southern Corn Rootworm Beetle (Adult) Three-Cornered Alfalfa Hopper Potato Leafhopper Thrips spp. 5 Soybean Aphid ⁴	0.015 - 0.025	1.92 - 3.20	Apply as required by scouting, usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A. For control of adult corn rootworm beetles (<i>Diabrotica</i> species) as part of an aerial applied corn rootworm control program, use a minimum of 2.56 fl. oz./A (0.02 lb. a.i./A). 1Use higher rates for large larvae. 2Suppression only. 3See resistance statement under PRODUCT INFORMATION. 4Use lower label rates for early season applications and/or lighter populations. 5Does not include Western Flower Thrips.
Restrictions	Armyworm ¹ Fall Armyworm ¹ Yellow-striped Armyworm ¹ Tobacco Budworm ³ Webworm spp. European Corn Borer Silverspotted Skipper Japanese Beetle (Adult) Blister Beetle spp. Stink Bug spp. Plant Bug spp. Plant Bug spp. Grasshopper spp. Beet Armyworm ^{2,3} Soybean Looper ^{2,3} Lesser Cornstalk Borer ² Spider Mite spp. ²	0.025 - 0.03	3.20 - 3.84	

- Do not apply within 30 days of harvest.
- Do not apply more than 0.06 lb. a.i. (0.48 pt.)/A per season.
 Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.

		Rat	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
Crop LETTUCE (HEAD AND LEAF)	Alfalfa Looper Cabbage Looper Imported Cabbageworm Cutworm spp. Saltmarsh Caterpillar Green Cloverworm Diamondback Moth³ Armyworm Beet Armyworm¹ Southern Armyworm Corn Earworm Tobacco Budworm³ European Corn Borer Flea Beetle spp. Japanese Beetle (Adult) Vegetable Weevil (Adult) Grasshopper spp. Leafhopper spp. Leafhopper spp. Plant Bug spp. including Lygus spp.³ Stink Bug spp. Meadow Spittlebug Aphid spp.² Spider Mite spp.²	lb. a.i./A 0.015 - 0.025 0.02 - 0.03	fl. oz./A 1.92 - 3.20 2.56 - 3.84	Remarks Apply as required by scouting, usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A. For control of first and second instar only. Suppression only. See resistance statement under PRODUCT INFORMATION.

- Do not apply within 1 day of harvest.
 Do not apply more than 0.3 lb. a.i. (2.4 pts. or 38.4 fl. oz. of product)/A per season.

		Ra	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
Crop ONION (BULB) AND GARLIC	Cutworm spp. Seedcorn Maggot (Adult) Onion Maggot (Adult) Leafminer spp. (Adult) Armyworm spp.¹ Onion Thrips ³ Tobacco Thrips ³ Western Flower Thrips²,³ Flower Thrips²,³ Aphid spp.² Plant Bug spp. Stink Bug spp.			Remarks Apply as required by scouting, usually at intervals of 5 or more days, Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Use the higher label rates as thrips population increases and avoid rescue situations. Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A. For thrips control by aerial application, the addition of 1 % COC v/v, 1/4% NIS v/v, or a silicone adjuvant (follow manufacturer's use directions) may enhance the deposition of the spray and increase plant coverage. ¹For control of the first and second instars only. ²Suppression only.
				³ See resistance statement under PRODUCT

		INFORMATION

- Do not apply within 14 days of harvest.
- Do not apply more than 0.24 lb. a.i. (1.92 pts. or 30.72 fl. oz. of product)/A per season.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
PEANUT	Cutworm spp. Green Cloverworm Velvetbean Caterpillar Red-necked Peanut Worm Potato Leafhopper Corn Earworm Fall Armyworm¹ Bean Leaf Beetle Southern Corn Rootworm (Adult) Vegetable Weevil Whitefringed Beetle (Adult) Stink Bug spp. Tobacco Thrips Grasshopper spp. Beet Armyworm²³ Soybean Looper²³ Lesser Cornstalk Borer² Spider Mite spp.² Aphid spp.²	0.015 - 0.025 0.02 - 0.03	1.92 - 3.20 2.56 - 3.84	Apply as required by scouting, usually at intervals of 7 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A. ¹Use higher label rates for large larvae. ²Suppression only. ³See resistance statement under PRODUCT INFORMATION.

- Do not apply within 14 days of harvest.
- Do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz. of product)/A per season.
- Do not graze livestock in treated areas. Do not use treated vines or hay for animal feed.

		Ra	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
POME FRUITS: Apple Crabapple Loquat Mayhaw Oriental Pear Pear Quince	Leafroller spp. Codling Moth Tufted Apple Budworm Oriental Fruit Moth Lesser Appleworm Green Fruitworm Tent Caterpillar spp. Tentiform Leaf Miner spp. Apple Maggot (Adult) Cherry Fruit Fly spp. (Adult) Pear Sawfly Plum Curculio Japanese Beetle Plant Bug spp. Stink Bug spp. Leafhopper spp. Periodical Cicada Apple Aphid Rosy Apple Aphid Pear Psylla¹ San Jose Scale (fruit infestations only) Orange Tortrix Omnivorous Leafroller Spirea Aphid¹ Tree Borer spp. Webworm spp.	0.02 - 0.04	2.56 - 5.12	Apply as required by scouting, usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water/A but use higher volumes as appropriate for thorough coverage. ¹ Suppression only.

- Do not apply within 21 days of harvest.
- Do not apply more than 0.04 lb. a.i. (0.32 pt. or 5.12 fl. oz. of product)/A in a single application.
- Do not apply more than 0.2 lb. a.i. (1.6 pts. or 25.6 fl. oz. of product)/A per year.
- Do not apply more than 0.16 lb. a.i. (1.28 pts. or 20.48 fl. oz. of product)/A per year post bloom.

		Rat	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
STONE	Leafroller spp.	0.02 - 0.04	2.56 - 5.12	Apply as required by scouting, usually at
FRUITS:	Peach Twig Borer			intervals of 5 or more days. Base timing and
Apricot	Oriental Fruit Moth			frequency of applications upon insect
Sweet and Tart	Peachtree Borer spp.			populations reaching locally determined
Cherry	Green Fruitworm			economic thresholds and IPM.
Nectarine	Tent Caterpillar spp.			Apply with ground or air equipment using
Peach	American Plum Borer			sufficient water to obtain full coverage of the
Plum	Cherry Fruit Fly spp.			foliage or target area. When applying by air,
Chickasaw	(Adult)			apply in a minimum of 5 gals. of water/A, but
Plum	Plum Curculio			use higher volumes as appropriate for thorough
Damson Plum	Rose Chafer			coverage.
Japanese	Japanese Beetle			coverage.
Plum	Plant Bug spp.			
Plumcot	Stink Bug spp.			
Prune	Leafhopper spp.			
	Periodical Cicada			
	Black Cherry Aphid			
	Apple Maggot (Adult)			
	Codling Moth			
	June Beetle			
	Pear Sawfly			
	Thrips spp.			

- Do not apply within 14 days of harvest.
- Do not apply more than 0.04 lb. a.i. (0.32 pt. or 5.12 fl. oz. of product)/A in a single application.
- Do not apply more than 0.2 lb. a.i. (1.6 pts. or 25.6 fl. oz. of product)/A per year.
- Do not apply more than 0.16 lb. a.i. (1.28 pts. or 20.48 fl. oz. of product)/A per year post bloom.

		Rat	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
SUGARCANE	Sugarcane Borer ¹ Rice Stalk Borer ¹ Sugarcane Beetle (Adult) ² Yellow Sugarcane Aphid ³ Mexican Rice Borer ¹ Pygmy Mole Cricket Sugarcane Aphid ³ West Indian Cranefly	0.025 - 0.04	3.20 - 5.12	Apply as required by scouting, usually at intervals of 7 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic threshold. Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply a minimum of 2 gals. of water/A.
				¹ For control before the larva bores into the plant stalk. ² Suppression only of beetles active above ground. ³ See resistance statement under PRODUCT INFORMATION.

- Do not apply within 21 days of harvest.
- Do not apply more than 0.16 lb. a.i. (1.28 pts. or 20.48 fl. oz. of product)/A per season.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
Crop SUNFLOWER	Target Pests Sunflower Beetle Cutworm spp. Sunflower Moth Banded Sunflower Moth Fall Armyworm ¹ Woollybear Caterpillar Spotted Cabbage Looper Painted Lady (Thistle) Caterpillar Seed Weevil (Adult) Stem Weevil (Adult) Head-Clipper			Apply as required by scouting, usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of sunflower heads and/or foliage. When applying by air, apply in a minimum of 2 gals. of water/A. ¹ Use higher rates for large larvae. ² Suppression only. ³ See resistance statement under
	Weevil (Adult) Japanese Beetle (Adult) Sunflower Maggot (Adult) Leafhopper spp. Meadow Spittlebug Stink Bug spp. Grasshopper spp. Beet Armyworm ^{2,3} Spider Mite spp. ²	0.03	3.84	PRODUCT INFORMATION.

- Do not apply within 45 days of harvest.
- Do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz. of product)/A per season.
- Do not apply more than 0.09 lb. a.i. (0.72 pt. or 11.52 fl. oz. of product)/A per season after bloom initiation.
- Do not apply as an ultra-low volume (ULV) spray.

		Ra	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
TOBACCO	Tobacco Budworm ² Tobacco Hornworm Cabbage Looper Corn Earworm Salt Marsh Caterpillar Armyworm spp.' Cutworm spp. Webworm spp. Tobacco Flea Beetle (Adult) Cucumber Beetle spp. (Adult) Blister Beetle spp. Vegetable Weevil (Adult) Japanese Beetle (Adult) Grasshopper spp. Tree Cricket spp. Katydid spp. Plant Bug spp. ³ Stinkbug spp.	0.015 - 0.03	1.92 - 3.84	Apply as required by scouting, usually at intervals of 7 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic threshold. Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage. When applying by air, apply in a minimum of 2 gals. of water/A. ¹For control of first and second instar only. ²Suppression only. ³See resistance statement under PRODUCT INFORMATION.

Tobacco Thrips spp. ² Tobacco Aphid spp. ^{2,3} Tobacco Hornworm		
Potato Tuberworm		

- Do not apply within 40 days of harvest.
- Do not apply more than 0.09 lb. a.i. (0.72 pt. or 11.52 fl. oz. of product)/A per year.

		Ra	ate	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
TREE NUTS: Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (Hazelnut) Hickory Nut Macadamia Nut (Bush Nut) Pistachio Walnut, Black Walnut, English (Persian)	Leafroller spp. Navel Orangeworm Codling Moth Filbertworm Peach Twig Borer Walnut Husk Fly spp. (Adult) Ants Plant Bug spp. Stink Bug spp. Chinch Bug Leaffooted Bug Walnut Aphid	0.02 - 0.04	2.56 - 5.12	Apply as required by scouting, usually at intervals of 5 or more days. Base timing and frequency of applications upon insect populations reaching locally determined economic threshold. Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water/A, but use higher rates as appropriate for thorough coverage.
Pecan	Hickory Shuckworm Pecan Casebearer spp. Pecan Weevil Pecan Aphid spp. Pecan Spittlebug Pecan Phylloxera spp. Stink Bug spp.	0.02 - 0.04	2.56 - 5.12	

- Do not apply within 14 days of harvest.
- Do not apply more than 0.16 lb. a.i. (1.28 pts. or 20.48 fl. oz. of product)/A per year.
- Do not apply more than 0.12Ib. a.i. (0.96 pt. or 15.36 fl. oz. of product)/A per year post bloom.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
TUBEROUS	Cutworm spp.	0.015 - 0.025	1.92 - 3.20	Ground application: Apply in sufficient
AND	Leafhopper spp.			spray volume to obtain full coverage of the
CORM	Saltmarsh			foliage or target area.
VEGETABLES	Caterpillar			Air application: Apply in a minimum of 2
CROP GROUP	Sweet Potato			gals. per acre or sufficient spray volume to
Including:	Hornworm			obtain full coverage of the foliage or target
Arracacha	Woolybear			area.
Arrowroot	Caterpillar spp.			
Artichoke	Aphid species ¹	0.02 - 0.03	2.56 - 3.84	Make applications when pests appear and
(Chinese	Armyworm spp. ¹			repeat applications as necessary, usually at
and Jerusalem	Blister Beetle spp.			intervals of 7 or more days. Apply in
only)	Colorado Potato			sufficient volume to ensure sufficient
Canna (edible)	Beetle ¹			coverage of foliage.
Cassava (bitter	Corn Earworm			Insects that bore or tunnel into leaves, vines,
and sweet)	Cricket spp.			stems, tubers, or corms must be controlled
Chayote (root)	Cucumber Beetle			

Chufa	spp (Adulta)			hafara panatration Only avnoced inscats
	spp. (Adults)			before penetration. Only exposed insects
Dasheen	European Corn			(larvae and/or adults) can be controlled with
Ginger	Borer			foliar applications of Actylis Lambda-Cy.
Leren	Flea Beetle spp.			
Potato	(adults)			¹ See resistance statement under
Sweet Potato	Grasshopper spp.			
Tanier	Looper spp. ¹			PRODUCT INFORMATION
Turmeric	Lygus Bug spp. ¹			² Does not include Western Flower Thrips.
Yam (bean and	Plant Bug spp.			³ Suppression only.
true)	Potato Psyllid			
l'uc)	Potato Tuberworn			
	Stink Bug spp.			
	Sweet Potato Leaf			
	Beetle (Adults)			
	Sweet Potato Vine			
	Borer			
	Thrips spp. ^{1,2}			
	Tortoise Beetle			
	spp.			
	Webworm spp.			
	Weevil spp.			
	(Adults)			
	Leafminer spp. ^{1,3}	0.03	3.84	-
	Whitefly spp. ^{1,3}	0.03	3.04	
	Spider Mite spp. ³			

- Do not apply more than 0.12 lb. a.i. (0.96 pt. or 15.36 fl. oz. of product)/A per season.
- Do not apply within 7 days of harvest.

NON-AGRICULTURAL USES

All outdoor spray applications must be limited to spot or rack-and-crevice treatments only, except for the following permitted uses:

- 1. Application to pervious surfaces such as soil, lawn, turf, and other vegetation;
- 2. Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (*e.g.*, soil, mulch, or lawn);
- 3. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
- 4. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch;
- 5. Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level;
- 6. Applications to vertical surfaces directly above pervious surfaces, such as soil, lawn, turf, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters

Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1ft. or 4 ft. by 0.5ft.).

For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

Do not apply the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.

Do not apply or irrigate to the point of runoff.

Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours). Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

Treat surfaces to ensure thorough coverage but avoid runoff.

• To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.

	Rate				
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks	
Crop CONIFER AND DECIDUOUS TREES: Plantations Nurseries	Pine Tip Moth spp. Spruce Budworm Bagworm Tent Caterpillar spp. Leafroller spp. Gypsy Moth Webworm spp. Tussock Moth spp. Pine Sawfly spp. Sawfly spp. Pine Chafer Japanese Beetle May Beetle spp. June Beetle spp. Pine Colaspis Beetle Leaf Beetle spp. Pales Weevil Pine Weevil spp. Pine Conelet Bug Spittlebug spp. Pine Leaf Chermid Balsam Wooly Aphid Balsam Twig Aphid Birch Leafminer Black Pine Weevil Elm Leaf Beetle		1	Remarks To control exposed foliage, flower, cone, seed, and bark feeding insects, apply as required by scouting. Base timing and frequency of applications upon insect populations reaching locally determined economic thresholds. Apply with ground equipment using sufficient water to obtain full coverage of target site. When applying by air, apply a minimum of 2 gals. of water/A. Suppression only.	
	Black Pine Weevil				
	Mealybug spp. ¹ Pine Needle Scale Pine Tortoise Scale Poplar Aphid spp.				

• Do not apply more than 0.24 lb. a.i. (1.92 pts. or 30.72 fl. oz. of product)/A per year.

		Rate			
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks	
CONIFER AND DECIDUOUS	Coneworm spp. Seed Bug spp. Thrips spp.	See Remarks	See Remarks	For high volume sprayers, dilute 5.12 fl. oz. per 100 gals. of water and apply 5-10 gals. of finished spray per tree.	
TREES: Seed Orchards				For low volume sprayers, dilute 20 fl. oz. per 100 gals. of water and apply 100 gals. of finished spray per/A.	
				For aerial applications, apply 15 fl. oz./A in a minimum of 10 gals. finished spray/A.	
				Restrictions: • Do not apply more than 0.5 lb. a.i. (4 pts. or 64 fl. oz. of product)/A per year.	
NON- CROPLAND (Excluding	See Crop Outlets on this label for target pest and rates.	See Crop Outlets	See Crop Outlets	Spray non-cropland adjacent to agricultural areas to control migratory insects, which may threaten crops.	
Public Land)				Follow use directions, rates, and spray recommendations found elsewhere in this label for the adjacent crop outlet and target pests.	
				Use highest labeled rates for dense/large foliage, high insect populations, and larger larval stages. Repeat as necessary to maintain control.	

- Do not exceed 0.2 lb. a.i. (1.6 pts. or 25.6 fl. oz. of product)/A per year.
 Do not graze livestock in treated areas.

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks

		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CONIFER AND DECIDUOUS TREES: Plantations Nurseries	Pine Tip Moth spp. Spruce Budworm Bagworm Tent Caterpillar spp. Leafroller spp. Gypsy Moth Webworm spp. Tussock Moth spp. Pine Sawfly spp. Sawfly spp. Pine Chafer Japanese Beetle May Beetle spp. June Beetle spp. Pine Colaspis Beetle Leaf Beetle spp. Pine Weevil spp. Pine Weevil spp. Pine Conelet Bug Spittlebug spp. Pine Leaf Chermid Balsam Wooly Aphid Balsam Twig Aphid Birch Leafminer Black Pine Weevil Elm Leaf Beetle European Elm Bark Beetle Mealybug spp. Pine Needle Scale Pine Tortoise Scale Poplar Aphid spp.	0.02 - 0.04	2.56 -5.12	To control exposed foliage, flower, cone, seed, and bark feeding insects, apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Apply with ground equipment using sufficient water to obtain full coverage of target site. When applying by air, apply a minimum of 2 gals. of water/A. Suppression only.

• Do not apply more than 0.24 lb. a.i. (1.92 pts. or 30.72 fl. oz. of product)/A per year.

		Rate			
Crop	Target Pests	lb. a.i./A	lb. a.i./A fl. oz./A Remarks		
CONIFER AND DECIDUOUS	Coneworm spp. Seed Bug spp. Thrips spp.	See Remarks See Remarks		For high volume sprayers, dilute 5.12 fl. oz. per 100 gals. of water and apply 5-10 gals. of finished spray per tree.	
TREES: Seed Orchards				For low volume sprayers, dilute 20 fl. oz. per 100 gals. of water and apply 100 gals. of finished spray per/A.	
				For aerial applications, apply 15 fl. oz./A in a minimum of 10 gals. finished spray/A.	
				•	

Restrictions:

Do not apply more than 0.5 lb. a.i. (4 pts. or 64 fl. oz. of product)/A per year.

	Rate		
Target Pests	lb. a.i./A	fl. oz./A	Remarks
See Crop Outlets on this label for target pest and rates.	See Crop Outlets	See Crop Outlets	Spray non-cropland adjacent to agricultural areas to control migratory insects, which may threaten crops.
			Follow use directions, rates, and spray recommendations found elsewhere in this label for the adjacent crop outlet and target pests.
			Use highest labeled rates for dense/large foliage, high insect populations, and larger larval stages. Repeat as necessary to maintain control.
	See Crop Outlets on this label for target	Target Pests See Crop Outlets on this label for target Ib. a.i./A See Crop Outlets	Target PestsIb. a.i./Afl. oz./ASee Crop Outlets on this label for targetSee Crop OutletsSee Crop Outlets

- Do not exceed 0.2 lb. a.i. (1.6 pts. or 25.6 fl. oz. of product)/A per year.
 Do not graze livestock in treated areas.

Rate Conversion Chart

Lb. A.I. Per Acre	Fl. Oz. Per Acre	Pints Per Acre	Treated Acres Per Gallon
0.015	1.92	0.12	66
0.02	2.56	0.16	50
0.025	3.20	0.20	40
0.03	3.84	0.24	33
0.04	5.12	0.32	25

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

Pesticide Disposal: Pesticide wastes are acutely hazardous. 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 container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Triple rinse as follows:

Containers 5 gallons or less: 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 ¼ full with water and recap. Shake for 10 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. Once cleaned, offer for recycling or reconditioning if appropriate.

Containers larger than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container ½ full with water. Replace and tighten closures. Tip container on its side and roll 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. Turn the container over onto its other 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.

Refillable Containers: Return container to point of purchase for reuse with seal intact and in salable condition. Refill this container with lambda-cyhalothrin only. Do not reuse this container for any other purpose. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. Cleaning this container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC 1-800-424-9300

WARRANTY DISCLAIMER AND NOTICE

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranty and Limitations Liability before using this product. If the terms are not acceptable, return the unopen product at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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