



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 26, 2026

Annelle Finstad  
Registration Specialist  
Bonide Products, LLC  
6301 Sutliff Road  
Oriskany, NY 13424

Subject: Label Amendment - Registration Review Mitigation for Lambda-Cyhalothrin  
Product Name: BONIDE LAMBDA 0.5% CONCENTRATE  
EPA Registration Number: 4-469  
Case Number: 472164  
Application Dates: January 25, 2022

Dear Annelle Finstad:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Lambda-Cyhalothrin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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 the Federal Insecticide, Fungicide, and Rodenticide Act 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) list 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 Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for

shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr by phone at 202-566-0636, or via email at [carr.caleb@epa.gov](mailto:carr.caleb@epa.gov).

Sincerely,



Julie Javier, Team Leader  
Risk Mitigation and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

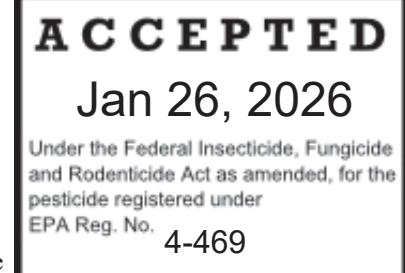


## LAMBDA 0.5% CONCENTRATE

[Additional Brand Names: Beetle Killer; BONIDE® Beetle Killer, Caterpillar Killer, Bonide® Caterpillar Killer; Orchard™ Est. 1931 Garden Insect Killer Concentrate; Garden Insect Killer Concentrate]

### Optional Marketing Statements

Protects [For] vegetables, roses, flowers, trees, shrubs, ornamentals  
 Use outdoors on trees, shrubs, and structures  
 Kills [Controls] [For use on] Garden insects, including ants, aphids, Asian lady beetle, chinch bugs, Colorado potato beetle, cutworms, deer ticks, elm leaf beetle, fire ants, flea beetles, fleas, grubs, Japanese beetles, mites, mosquitoes, sod webworms, whiteflies and many more [other] listed insects.  
 Broad spectrum insect killer [insecticide][concentrate]  
 Concentrated insect spray [killer]  
 For soil insect control  
 For barrier use  
 Kills & repels insects  
 Kills insects [pests] outside the home [on outdoor surfaces] for up to 8 weeks [2 months]  
 Lasts Up to 8 Weeks  
 Low odor, non-staining [formula]  
 Fast acting [formula] [insect killer] [with up to 8 weeks residual]  
 Works [kills] in 24 hours  
 Kills 130+ [over 130] pests [insects] on contact  
 Long-lasting insect protection  
 Makes up to 128 gallons (for qt size container – volume will vary as appropriate to packaging size)  
 Covers up to 16,000 sq. ft. (for qt size container – volume will vary as appropriate to packaging size)  
 Kills Fire Ants in 24 hours  
 Kills the Fire Ant Mound  
 Kills the Queen and the Mound  
 Controls Fire Ants for up to 4 Weeks [1 month]  
 Kills on Contact  
 For trees, shrubs, ornamentals, vegetables, and structures  
 Kills and repels for up to 8 weeks  
 Kills and repels insects, including Japanese Beetles and over 130 other insect pests  
 Covers up to 16,000 sq. ft. Lasts up to 8 weeks  
 Protects trees, shrubs, ornamentals, structures and listed vegetables from insect damage  
 Kills bagworms, tent caterpillars, gypsy moths and over 100 other insect pests  
 Kills and repels insects on trees, shrubs, vegetables and ornamentals  
 Kills bagworms, tent caterpillars, and over 100 other listed insects  
 Kills and repels insects on trees, shrubs, vegetables, ornamentals and buildings  
 Mix as little as ½ tablespoon per gallon of water and apply per label



### ACTIVE INGREDIENT:

Lambda-cyhalothrin ..... 0.5%

OTHER INGREDIENTS ..... 99.5%

TOTAL ..... 100.0%

### Keep Out Of Reach Of Children **CAUTION**

See back/side/other panel(s) or attached booklet for additional Precautionary Statements & First Aid.

**Net Contents:** 1QT (32 fl oz) (946 mL)

EPA Reg. No. 4-469

Nov 21, 2025 Revs, April 5, 2025 Revs Jan. 25, 2022 – Lambda-Cyhalothrin Amend

EPA Est. 4-NY-1

Page 1 of 14 Pages

## **READ THE ENTIRE LABEL BEFORE USE**

This product kills grubs, ants, fleas, chinch bugs, mosquitoes, sod webworms, aphids, beetles, whiteflies, deer ticks, mites, Japanese beetles, fire ants and other listed insects.

[This product kills Garden insects, including, Asian lady beetle, Colorado potato beetle, elm leaf beetle, flea beetles, Japanese beetles, and many other listed insects.]

[This product kills Azalea caterpillar, Eastern tent caterpillar, Leaf feeding caterpillars and other listed insects.]

## **DIRECTIONS FOR USE**

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

For outdoor use only.

Do not apply directly to residential lawns and turf in residential settings (e.g., homes, parks, schools, athletic fields or any other area frequented by the general public).

Do not allow children or pets into the treated area until dry.

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

1. Application to pervious surfaces such as soil and 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 groundcover that abuts the perimeter of the treated structure);
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, mulch or 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 1 ft. 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, marches 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. Do not apply when the wind speed is greater than 15 mph. 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.

[In New York State, this product may not be applied to an area within 100 ft. of a coastal marsh, or stream that drains directly into a coastal marsh.]

## Mixing and Application

1. Using a clean sprayer, measure and mix the amounts of product and water as directed in the following table(s) [Use Rate Table(s)]
2. Do not use kitchen utensils such as measuring cups and spoons for food purposes after they have been used with pesticides.
3. Spray as directed – complete coverage is important.
4. Flush sprayer with clean water after use.
5. Treat when insects begin to appear and repeat treatments to maintain control as directed.
6. Carefully follow all label directions and any limitations of use, such as the amount of spray to apply or PHI (pre-harvest interval) for particular vegetable crops.

### Measurement Conversions:

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs = 6 tsp

6 fl oz =  $\frac{3}{4}$  cup

1½ Tbs in 3 gallons of water = 1½ tsp in 1 gallon of water

2 Tbs in 3 gallons of water = 2 tsp in 1 gallon of water

Note: This product is non-staining to most home siding, depending on age and cleanliness. Prior to applying this product to areas that may contact home siding (including vinyl siding), test in a hidden area and recheck in a few hours. If any staining is observed, do not use this product.

**PESTS OUTSIDE THE HOME:** Use on ornamental plants next to building foundations and other outdoor surfaces where these pests are active, including porches, buildings, screens, overhangs, window frames, garages and patios. See **Table 1-Outdoor Surface Barrier Application** for use rates and instructions.

**Table 1. Outdoor Surface Barrier Application**

Pests	Use Rate	Instructions
Ants <sup>1</sup> , Asian lady beetles, Centipedes, Cockroaches, Crickets, Earwigs, Eastern tent caterpillar, Fleas, Forest tent caterpillar, Gypsy moth larvae, Fleas, Millipedes, Mosquitoes, Palmetto bugs, Scorpions, Sowbugs, Pillbugs, Spiders, Deer ticks (which may transmit Lyme disease), Waterbugs  <sup>1</sup> Argentine, Southern, Field, Allegheny mound, Florida carpenter, Cornfield, Honey, Pavement, Nuisance.	0.5 fl oz (1 Tbs) in 1 gallon of water to cover 250 sq. ft. of surface area	For best results, remove any leaf litter or debris from area prior to treating. Cut back branches or vegetation that contact foundation. Rake back mulch and remove any other material that may serve as harborage sites for pests.  Apply a continuous 3 ft. band as a coarse spray to thoroughly and uniformly wet the treated area around the foundation of buildings. Apply as a spot or crack-and-crevice spray to windows, vents, overhangs, doors and other listed areas to reduce access by crawling insects.  Repeat treatment every 8 weeks [2 months], as needed.

**FIRE ANT MOUNDS:** Mix 1 fl oz (2 Tbs) in 1 gallon of water. Do not disrupt mound before treatment.

Thoroughly wet each mound and surrounding 4 ft. area. For best results, treat in cool weather (65°-80°F) or in the early morning or late evening hours. Apply to new mounds as they appear.

**MOSQUITO CONTROL:** Use on ornamental plants next to building foundations and other listed outdoor surfaces where these pests are active, including porches, buildings, screens, overhangs, window frames, garages and patios. See **Table 2-Outdoor Mosquito Control** for use rates and instructions.

<b>Table 2. Outdoor Mosquito Control</b>		
<b>Use Site</b>	<b>Use Rate</b>	<b>Instructions</b>
Outdoor Surfaces including ornamental plants next to building foundations, porches, buildings, screens, overhangs, window frames, garages, and patios where mosquitoes are active	0.5 fl oz (1 Tbs) in 1 gallon of water to cover 250 sq. ft. - or - 2 fl oz (1/4 cup) in 4 gallons of water to cover 1,000 sq. ft.	Apply a continuous 3 ft. band around the building and 3 ft. upwards along the foundation. Apply as a coarse spray to thoroughly and uniformly wet the treated area. Apply as a spot or crack-and-crevice spray around windows, doors, roof overhangs and other listed areas where mosquitoes may be active.  Repeat treatment every 8 weeks [2 months], as needed.

**ORNAMENTAL TREES, SHRUBS & FLOWERS:** Apply thoroughly as a foliar cover spray to both sides of plant leaves and all plant surfaces where insects are present. For best results, apply early – prior to high insect infestations. See **Table 3-Ornamental Trees, Shrubs & Flowers Pest Control** for use rates and insects controlled.

<b>Table 3. Ornamental Trees, Shrubs &amp; Flowers Pest Control</b>		
<b>Use Site</b>	<b>Use Rate</b>	<b>Insects Controlled</b>
Ornamental Trees, Shrubs & Flowers including (but not limited to): Ageratum, Ash, Aster, Arborvitae, Arizona Cypress, Azaleas, Begonia, Birch, Boxwood, Box Elder, Camellias, Cherry (ornamental), Non-bearing Citrus, Chrysanthemum, Carnation, Coleus, Common Ninebark, Conifers, Douglas Fir, Elm, English Ivy, Euonymus, Exacum, Weeping Fig, Fir, Gladioli, Gold Bells, Hawthorn, Holly, Honeysuckle, Hypoestes, Ivy, Juniper, Lilac, Locust, Maple, Marigold, Mimosa, Mock Orange, Nannyberry, Oak, Orchid, Palm, Pansy, Pea Shrub, Petunia, Philodendron, Pine, Ornamental Plum, Poinsettia, Poplar, Tulip Poplar, Rhododendron, Roses, Snapdragon, Snowberry, Spruce, Taxus, Willow, Zinnia.	0.25 fl oz (1/2 Tbs) in 1 gallon of water to cover 250 sq. ft.	Ants <sup>1</sup> , Armyworms, Aphids, Asian lady beetles, Azalea caterpillar, Bagworms, Black vine weevil (adult), Boxelder bugs, Budworms, Cankerworms, Cockroaches, Crickets, Cutworms, Eastern tent caterpillar, Elm leaf beetles, European sawfly, Fall webworm, Flea beetles, Forest tent caterpillar, Gypsy moth larvae, Japanese beetle (adults), June beetles (adults), Lace bugs, Leaf feeding caterpillars, Leafhoppers, Leafminers (adult), Leaf rollers, Leaf skeletonizers, Midges, Oleander moth larvae, Pillbugs, Pine sawfly, Pine shoot beetles, Pinetip moths, Plant bugs, Root weevil, Sawfly, Scale insects (crawlers), Spiders, Spittlebugs, Striped beetles, Striped oakworm, Thrips, Tip moth, Tussock moth larvae

<sup>1</sup>Argentine, Allegheny mound, Black carpenter, Cornfield, Field, Florida carpenter, Harvester, Honey, Pavement, Southern, Sugar, Nuisance.

	0.5 fl oz (1 Tbs) in 1 gallon of water	Broadmites, Brown soft scale, California red scale (crawler), Clover mites, Mealybugs, Pineneedle scale (crawler), Spider mites, Whiteflies
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**VEGETABLES:** Apply thoroughly as a foliar cover spray to both sides of plant leaves and all plant surfaces where insects are present. For best results, apply when insects first appear or damage occurs. See **Table 4-Vegetable Garden Insect Control** for use rates, crops, pre-harvest interval (PHI) and insects controlled.

<b>4. Vegetable Garden Insect Control</b>		
<b>Use Rate/Instructions: 0.5 fl. oz. (1 Tbs.) in 1 gallon of water to cover 300 sq. ft.</b>		
Do not apply more than 5 times per growing season for corn. For all other crops, do not apply more than 9 times per growing season.		
Crop	PHI*	Insects Controlled
Broccoli, Brussels sprouts, Cabbage, Cavallo broccoli, Cauliflower, Chinese broccoli, Chinese cabbage, Chinese mustard, Kohlrabi	1 day	Alfalfa looper, Aphid, Armyworm, Beet armyworm, Cabbage looper, Cabbage webworm, Corn earworm, Cutworm, Diamondback moth, Fall armyworm, Flea beetle, Grasshopper, Imported cabbageworm, Japanese beetle <sup>1</sup> , Leafhopper, Lygus bug, Meadow spittlebug, Plant bug, Southern cabbageworm, Spider mite, Stink bug, Thrips, Yellow-striped armyworm, Whitefly  <sup>1</sup> adult stages
Corn (sweet & pop)	21 days	Armyworm, Bean leaf beetle, Beet armyworm, Cereal leaf beetle, Chinch bug, Corn earworm, Corn leaf aphid, Cutworm, English grain aphid, European corn borer, Grasshopper, Green bug, Green cloverworm, Hop vine borer, Japanese beetle <sup>1</sup> , Meadow spittlebug, Mexican corn rootworm beetle <sup>1</sup> , Northern corn rootworm beetle <sup>1</sup> , Sap beetle <sup>1</sup> , Southern corn rootworm beetle <sup>1</sup> , Southwestern corn borer, Stalk borer, Stink bug, Tobacco budworm, Western bean cutworm, Western corn rootworm beetle <sup>1</sup>  <sup>1</sup> adult stages
Corn (sweet only)	21 days	Aphid, Aster leafhopper, Corn silkfly <sup>1</sup> , Southern armyworm, Spider mite, Tarnished plant bug, Western bean cutworm  <sup>1</sup> adult stages
Lettuce (head & leaf)	1 day	Alfalfa looper, Aphid, Armyworm, Beet armyworm, Cabbage looper, Corn earworm, Cutworm, Diamondback moth, European corn borer, Fall armyworm, Flea beetle, Grasshopper, Green cloverworm, Imported cabbageworm, Japanese beetle <sup>1</sup> , Leafhopper, Meadow spittlebug, Plant bug, Saltmarsh caterpillar, Southern armyworm, Spider mite, Stink bug, Tobacco budworm, Vegetable weevil <sup>1</sup> , Whitefly  <sup>1</sup> adult stages
Onion (bulb) & Garlic	14 days	Aphid, Armyworm, Cutworm, Flower thrips, Leafminer <sup>1</sup> , Onion maggot <sup>1</sup> , Onion thrips, Plant Bug, Seedcorn maggot <sup>1</sup> , Stink bug, Tobacco thrips, Western flower thrips

		<sup>1</sup> adult stages	
Tomato & Tomatillo	5 days	Aphid, Beet armyworm, Cabbage looper, Colorado potato beetle, Cutworm spp., European corn borer, Fall armyworm, Flea beetle, Grasshopper, Hornworm, Leafhopper, Leafminer, Meadow spittlebug, Plant bug, Southern armyworm, Stink bug, Tobacco budworm, Tomato fruitworm, Tomato pinworm, Yellow-striped armyworm, Whitefly	
*PHI = Pre-Harvest Interval. Number of days to wait between the last application and harvest.			

## STORAGE & DISPOSAL

**Pesticide Storage:** Store and transport in upright position. Store only in original container, in a cool dry place inaccessible to children or pets.

**Pesticide Disposal:** *If partly filled* – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Container Disposal:** *If empty* -- Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available.

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

## FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

<b>If swallowed</b>	Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.
<b>If in eyes</b>	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.

**Environmental Hazards:** This product is extremely toxic to fish. 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 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.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

## **WARRANTY**

Seller warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, Seller makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, Seller's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Seller shall have no liability for consequential damages.

Buyer's Guarantee Limited to Label Claims.

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents) call National Pesticide Information Center at 1-800-858-7378.

**Bonide Products, LLC**  
6301 Sutliff Road, Oriskany, NY 13424

[batch code inserted at production]

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## LAMBDA 0.5% CONCENTRATE

[Additional Brand Name(s): BONIDE® LAMBDA READY-TO-SPRAY. Beetle Killer; BONIDE® Beetle Killer, Caterpillar Killer, Bonide® Caterpillar Killer; Orchard™ Est. 1931 Garden Insect Killer Ready to Spray; Garden Insect Killer Ready to Spray, Trusted since 1926 Bonide Flea Beater flea and tick control Ready to Spray, Bonide Flea Beater flea and tick control Ready to Spray, Flea Beater flea & tick control Ready to Spray]

### Optional Marketing Statements

Protects [For] vegetables, roses, flowers, trees, shrubs, ornamentals

Kills [Controls] [For use on] Garden insects, including ants, aphids, Asian lady beetle, chinch bugs, Colorado potato beetle, cutworms, deer ticks, elm leaf beetle, fire ants, flea beetles, fleas, grubs, Japanese beetles, mites, mosquitoes, sod webworms, whiteflies and many more [other] listed insects.

Broad spectrum insect killer [insecticide][concentrate]

Concentrated insect spray [killer]

For soil insect control

For broadcast and barrier use

Kills & repels insects

Kills insects [pests] outside the home [on outdoor surfaces] for up to 8 weeks [2 months]

Low odor, non-staining [formula]

Fast acting [formula] [insect killer] [with up to 8 weeks residual]

Works [kills] in 24 hours

Kills 130+ [over 130] pests [insects] on contact

Long-lasting insect protection

Makes up to 128 gallons (for qt size container – volume will vary as appropriate to packaging size)

Covers up to 16,000 sq. ft. (for qt size container – volume will vary as appropriate to packaging size)

Kills Fire Ants in 24 hours

Kills the Fire Ant Mound

Kills the Queen and the Mound

Controls Fire Ants for up to 4 Weeks [1 month]

Shoots 25' [ft.] (for ready-to-spray applicator packaging)

Kills on Contact

For trees, shrubs, ornamentals, vegetables, and structures

Kills and repels for up to 8 weeks

Shoots 25' or gentle spray for shrubs

Kills and repels insects, including Japanese Beetles and over 130 other insect pests

Covers up to 16,000 sq. ft.

Lasts up to 8 weeks

Protects trees, shrubs, ornamentals, structures and listed vegetables from insect damage

Just connect to garden hose and spray Twist & Shoot™ feature delivers a straight "Stream" for taller trees and a "Fan" pattern for low lying plants and gardens

Twist and Shoot™ sprayer reaches over 25 feet for taller trees, or a fan pattern for lower lying plants and gardens

Kills bagworms, tent caterpillars, gypsy moths and over 100 other insect pests

Connect and Spray

Kills and repels insects on trees, shrubs, vegetables and ornamentals

Optional Marketing Statements for Sub-registrants

Kills Mosquitoes and 110 + other insects

Perimeter Protection

Lasts up to 8 weeks

Covers up to 16,000 sq. ft.

Kills and repels insects, including Japanese beetles and 110+ other insect pests.

Protects trees, shrubs, ornamentals, structures and listed vegetables from insect damage.

Just connect to garden hose and spray. Twist & Shoot™\* feature delivers a straight stream for taller trees, and a fan pattern for low-lying plants and gardens.

\*Twist & Shoot™ is a trademark of Bonide Products, LLC.

Please be conscious of the environment, we ask that you use this product responsibly and follow all label directions.

[Optional graphic]

**Try our complete line of OFF!® outdoor products.**



**ACTIVE INGREDIENT:**

Lambda-cyhalothrin ..... 0.5%

**OTHER INGREDIENTS** ..... 99.5%

**TOTAL** ..... 100.0%

**Keep Out Of Reach Of Children**

**CAUTION**

See back/side/other panel(s) or attached booklet for additional Precautionary Statements & First Aid.

**Net Contents:** 1QT (32 fl oz) (946 mL)

## **READ THE ENTIRE LABEL BEFORE USE**

This product kills grubs, ants, fleas, chinch bugs, mosquitoes, sod webworms, aphids, beetles, whiteflies, deer ticks, mites, Japanese beetles, fire ants and other listed insects.

[This product kills Garden insects, including, Asian lady beetle, Colorado potato beetle, elm leaf beetle, flea beetles, Japanese beetles, and many other listed insects.]

[This product kills Azalea caterpillar, Eastern tent caterpillar, Leaf feeding caterpillars and other listed insects.]

## **DIRECTIONS FOR USE**

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

For outdoor use only.

Do not allow children or pets into the treated area until dry.

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

1. Application to pervious surfaces such as soil and 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 or mulch);
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, 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 1 ft. or 4 ft. by 0.5 ft.). For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marches 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. Do not apply when the wind speed is greater than 15 mph. 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.

[In New York State, this product may not be applied to an area within 100 ft. of a coastal marsh, or stream that drains directly into a coastal marsh.]

Note: This product is non-staining to most home siding, depending on age and cleanliness. Prior to applying this product to areas that may contact home siding (including vinyl siding), test in a hidden area and recheck in a few hours. If any staining is observed, do not use this product.

**Application:** Spray as directed – complete coverage is important. Treat when insects begin to appear and repeat treatments to maintain control as directed. Carefully follow all label directions and any limitations of use, such as the amount of spray to apply or PHI (pre-harvest interval) for particular vegetable crops.

#### TWIST & SHOOT™ READY-TO-SPRAY INSTRUCTIONS

- 1) Make sure control knob is in “OFF” position, then connect to garden hose.
- 2) Turn water on at faucet. When spraying low growing plants and small shrubs, twist the control knob right, to the “FAN” position. When spraying taller trees, shrubs and other plants, twist the control knob left to the “STREAM” position for extended reach and more uniform coverage. The product mixes automatically with the water as you spray.
- 3) To stop spraying, turn the control knob lever to the “OFF” position. Turn off water at the faucet and disconnect sprayer from garden hose.

**PESTS OUTSIDE THE HOME:** Use on ornamental plants next to building foundations and other outdoor surfaces where these pests are active, including porches, buildings, screens, overhangs, window frames, garages and patios. See **Table1-Outdoor Surface Barrier Application** for use rates and instructions.

**Table1. Outdoor Surface Barrier Application**

Pests	Use Rate	Instructions
Ants <sup>1</sup> , Asian lady beetles, Centipedes, Cockroaches, Crickets, Earwigs, Eastern tent caterpillar, Fleas, Forest tent caterpillar, Gypsy moth larvae, Millipedes, Mosquitoes, Palmetto bugs, Scorpions, Sowbugs, Pillbugs, Spiders, Deer ticks (which may transmit Lyme disease), Waterbugs  <sup>1</sup> Argentine, Southern, Field, Allegheny mound, Florida carpenter, Cornfield, Honey, Pavement, Nuisance.	1 QT (32 fl oz) treats 16,000 sq. ft.	For best results, remove any leaf litter or debris from area prior to treating. Cut back branches or vegetation that contact foundation. Rake back mulch and remove any other material that may serve as harborage sites for pests.  Apply a continuous 3 ft. band spray to thoroughly and uniformly wet the treated area around the foundation of buildings. Apply as a spot or crack-and-crevice spray to windows, vents, overhangs, doors and other listed areas to reduce access by crawling insects.  Repeat treatment every 8 weeks [2 months], as needed.

**MOSQUITO CONTROL:** Use on ornamental plants next to building foundations and other listed outdoor surfaces where these pests are active, including porches, buildings, screens, overhangs, window frames, garages and patios. See **Table 2-Outdoor Mosquito Control** for use rates and instructions.

**Table 2. Outdoor Mosquito Control**

Use Site	Use Rate	Instructions
Outdoor Surfaces including ornamental plants next to building foundations, porches, buildings, screens, overhangs, window frames, garages, and patios where mosquitoes are active		Apply a continuous 3 ft. band around the building and 3 ft. upwards along the foundation. Apply as a coarse spray to thoroughly and uniformly wet the treated area. Apply as a spot or crack-and-crevice spray around windows, doors, roof overhangs and other listed areas where mosquitoes

		may be active.  Repeat treatment every 8 weeks [2 months], as needed.
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**ORNAMENTAL TREES, SHRUBS & FLOWERS:** Apply thoroughly as a foliar cover spray to both sides of plant leaves and all plant surfaces where insects are present. For best results, apply early – prior to high insect infestations. See **Table 3-Ornamental Trees, Shrubs & Flowers Pest Control** for insects controlled.

**Table 3. Ornamental Trees, Shrubs & Flowers Pest Control**

Use Site	Insects Controlled
Ornamental Trees, Shrubs & Flowers including (but not limited to): Ageratum, Ash, Aster, Arborvitae, Arizona Cypress, Azaleas, Begonia, Birch, Boxwood, Box Elder, Camellias, Cherry (ornamental), Non-bearing Citrus, Chrysanthemum, Carnation, Coleus, Common Ninebark, Conifers, Douglas Fir, Elm, English Ivy, Euonymus, Exacum, Weeping Fig, Fir, Gladioli, Gold Bells, Hawthorn, Holly, Honeysuckle, Hypoestes, Ivy, Juniper, Lilac, Locust, Maple, Marigold, Mimosa, Mock Orange, Nannyberry, Oak, Orchid, Palm, Pansy, Pea Shrub, Petunia, Philodendron, Pine, Ornamental Plum, Poinsettia, Poplar, Tulip Poplar, Rhododendron, Roses, Snapdragon, Snowberry, Spruce, Taxus, Willow, Zinnia.	<p>Ants<sup>1</sup>, Armyworms, Aphids, Asian lady beetles, Azalea caterpillar, Bagworms<sup>2</sup>, Black vine weevil (adult), Boxelder bugs, Broadmites, Brown soft scale<sup>3</sup>, Budworms, California red scale<sup>3</sup> (crawler), Cankerworms, Clover mites, Cockroaches, Crickets, Cutworms, Eastern tent caterpillar, Elm leaf beetles, European sawfly, Fall webworm, Flea beetles, Forest tent caterpillar, Gypsy moth larvae, Japanese beetle (adults), June beetles (adults), Lace bugs, Leaf feeding caterpillars, Leafhoppers, Leafminers (adult), Leaf rollers, Leaf skeletonizers, Mealybugs, Midges, Oleander moth larvae, Pillbugs, Pine sawfly, Pine shoot beetles, Pineneedle scale<sup>3</sup> (crawler), Pinetip moths, Plant bugs, Root weevil, Sawfly, Scale insects<sup>3</sup> (crawlers), Spiders, Spider mites, Spittlebugs, Striped beetles, Striped oakworm, Thrips, Tip moth, Tussock moth larvae, Whiteflies</p> <p><sup>1</sup>Argentine, Allegheny mound, Black carpenter, Cornfield, Field, Florida carpenter, Harvester, Honey, Pavement, Southern, Sugar, Nuisance.</p> <p><sup>2</sup>For bagworm control, apply when bagworm larvae start to hatch.</p> <p><sup>3</sup>For scale control, treat the whole plant, including the stem, trunks and twigs.</p>

**VEGETABLES:** Apply thoroughly as a foliar cover spray to both sides of plant leaves and all plant surfaces where insects are present. For best results, apply when insects first appear or damage occurs. Do not apply more than 5 times per growing season for corn. For all other crops, do not apply more than 9 times per growing season. See **Table 4-Vegetable Garden Insect Control** for crops, pre-harvest interval (PHI), and insects controlled.

4. Vegetable Garden Insect Control		
Crop	PHI*	Insects Controlled
Broccoli, Brussels sprouts, Cabbage, Cavallo broccoli, Cauliflower, Chinese broccoli, Chinese cabbage, Chinese mustard, Kohlrabi	1 day	<p>Alfalfa looper, Aphid, Armyworm, Beet armyworm, Cabbage looper, Cabbage webworm, Corn earworm, Cutworm, Diamondback moth, Fall armyworm, Flea beetle, Grasshopper, Imported cabbageworm, Japanese beetle<sup>1</sup>, Leafhopper, Lygus bug, Meadow spittlebug, Plant bug, Southern cabbageworm, Spider mite, Stink bug, Thrips, Yellow-striped armyworm, Whitefly</p> <p><sup>1</sup>adult stages</p>

Corn (sweet & pop)	21 days	Armyworm, Bean leaf beetle, Beet armyworm, Cereal leaf beetle, Chinch bug, Corn earworm, Corn leaf aphid, Cutworm, English grain aphid, European corn borer, Grasshopper, Green bug, Green cloverworm, Hop vine borer, Japanese beetle <sup>1</sup> , Meadow spittlebug, Mexican corn rootworm beetle <sup>1</sup> , Northern corn rootworm beetle <sup>1</sup> , Sap beetle <sup>1</sup> , Southern corn rootworm beetle <sup>1</sup> , Southwestern corn borer, Stalk borer, Stink bug, Tobacco budworm, Western bean cutworm, Western corn rootworm beetle <sup>1</sup>  <sup>1</sup> adult stages
Corn (sweet only)	21 days	Aphid, Aster leafhopper, Corn silkfly <sup>1</sup> , Southern armyworm, Spider mite, Tarnished plant bug, Western bean cutworm  <sup>1</sup> adult stages
Lettuce (head & leaf)	1 day	Alfalfa looper, Aphid, Armyworm, Beet armyworm, Cabbage looper, Corn earworm, Cutworm, Diamondback moth, European corn borer, Fall armyworm, Flea beetle, Grasshopper, Green cloverworm, Imported cabbageworm, Japanese beetle <sup>1</sup> , Leafhopper, Meadow spittlebug, Plant bug, Saltmarsh caterpillar, Southern armyworm, Spider mite, Stink bug, Tobacco budworm, Vegetable weevil <sup>1</sup> , Whitefly  <sup>1</sup> adult stages
Onion (bulb) & Garlic	14 days	Aphid, Armyworm, Cutworm, Flower thrips, Leafminer <sup>1</sup> , Onion maggot <sup>1</sup> , Onion thrips, Plant Bug, Seedcorn maggot <sup>1</sup> , Stink bug, Tobacco thrips, Western flower thrips  <sup>1</sup> adult stages
Tomato & Tomatillo	5 days	Aphid, Beet armyworm, Cabbage looper, Colorado potato beetle, Cutworm spp., European corn borer, Fall armyworm, Flea beetle, Grasshopper, Hornworm, Leafhopper, Leafminer, Meadow spittlebug, Plant bug, Southern armyworm, Stink bug, Tobacco budworm, Tomato fruitworm, Tomato pinworm, Yellow-striped armyworm, Whitefly

\*PHI = Pre-Harvest Interval. Number of days to wait between the last application and harvest.

## STORAGE & DISPOSAL

**Pesticide Storage:** Store and transport in upright position. Store only in original container, in a cool dry place inaccessible to children or pets.

**Pesticide Disposal:** *If partly filled* – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Container Disposal:** *If empty* -- Non-refillable container. Do not reuse or refill this container unless directions for use allow a different (concentrated) product to be diluted in the container. Offer for recycling, if available.

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

**FIRST AID**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

<b>If swallowed</b>	Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.
<b>If in eyes</b>	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.

**Environmental Hazards:** This product is extremely toxic to fish. 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 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.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

**WARRANTY**

Seller warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, Seller makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, Seller's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Seller shall have no liability for consequential damages.

Buyer's Guarantee Limited to Label Claims.

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents) call National Pesticide Information Center at 1-800-858-7378.

**Bonide Products, LLC**  
6301 Sutliff Road  
Oriskany, NY 13424

[batch code inserted at production]

[Lot number suffix A or B indicates appropriate establishment number]

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