

4-469

09-30-2010

1/18



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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Nicole Russell
Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424

SEP 30 2010

Dear: Ms. Russell:

The Agency is in receipt of your application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated June 9, 2010 for the product Bonide® Lambda 0.5% Concentrate. The Registration Division (RD) has conducted a review of the request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The Confidential Statement of Formulas (CSF) and/or label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please contact Melody Banks on 703 305-5413.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Suarez".

Mark Suarez
Product Manager 13
Insecticide Branch
Registration Division (7504P)



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 4-469	2. EPA Product Manager LaRocca	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Bonide® Lambda 0.5% Concentrate	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) Bonide Products, Inc. 6301 Sutliff Road Oriskany, NY 13424 Attn: Nicole Russell <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION SEP 30 2010
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

NOTIFICATION: Addition of optional marketing statements.
 This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the CSF of this product. Bonide Products, Inc. understands that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA and further understands that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and Bonide Products, Inc. may be subject to enforcement action and penalties under section 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Metal <input checked="" type="checkbox"/> Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 16; 24; 32 fl. oz.	5. Location of Label Directions <input checked="" type="checkbox"/> on label			
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Nicole Russell		Title Pesticide Compliance Specialist		Telephone No. (Include Area Code) 315-736-8231 ext. 230	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.					RECEIVED (Stamped)
2. Signature 		3. Title Pesticide Compliance Specialist			
4. Typed Name Nicole Russell		5. Date 6/9/10			

Continuation of Section II

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. Bonide Products, Inc. understands that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. Bonide Products, Inc. Further understands that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and Bonide Products, Inc. May be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Notification of label change relative to PR Notice 2008-1. This notification is consistent with the guidance in PR Notice 2008-1 and the requirements of EPA's regulations at 40 CFR 156.10, 40 CFR 156.80 and 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. Bonide Products, Inc. understands that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. Bonide Products, Inc. further understands that if this notification is not consistent with the guidance of PR Notice 2008-1 and the requirements of 40 CFR 156.10, 40 CFR 156.80 and 40 CFR 152.46, this product may be in violation of FIFRA and Bonide Products, Inc. may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

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Phone (315) 736-8231
Fax (315) 736-7582

June 9, 2010

FedEx: 8685 1623 9246

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
US Environmental Protection Agency
Room S4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE: Bonide Lambda 0.5% Concentrate
EPA Reg. No. 4-469
Notification – Addition of optional marketing statements.

To Whom It May Concern:

Enclosed, please find a completed form 8570-1, Notification and the latest final printed label for the above mentioned registration. Changes are in red text. I trust you will find everything in order for approval.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. Bonide Products, Inc. understands that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. Bonide Products, Inc. further understands that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and Bonide Products, Inc. May be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

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Should you have any questions or require additional information, please do not hesitate to contact me at (315) 736-8231, extension 230 or by e-mail at Nicoler@bonide.com.

Sincerely,

Nicole Russell
Pesticide Compliance Specialist

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Enclosure

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NOTIFICATION

SEP 3 0 2010

LAMBDA 0.5% CONCENTRATE

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

Optional Marketing Statements

- Protects [For] lawns, vegetables, roses, flowers, trees, shrubs, ornamentals
Use outdoors on trees, shrubs, lawns and structures
Kills [Controls] [For use on] Lawn & Garden insects, including ants, aphids, Asian lady beetle, chinch bugs, Colorado potato beetle, cutworms, deer ticks, elm leaf beetle, European crane flies, 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 and turf 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]
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. [of lawn] (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, lawns 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, lawns, 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, European crane flies, white grubs and over 100 other listed insects
Kills and repels insects on trees, lawns, shrubs, vegetables, ornamentals and buildings
Mix as little as 1/2 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)

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, European crane flies, fire ants and other listed insects.

[This product kills Lawn & 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.

Do not allow children or pets into the treated area until dry. Do not water the treated area to the point of run-off. Do not make applications during rain. All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- (1) Treatment to soil or vegetation around structures;
- (2) Applications to lawns, turf, and other vegetation;
- (3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only.

[In New York State, this product may not be applied to lawns 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 = ¾ 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.

LAWNS: Measure the area to be sprayed. See **Table 1-Underground and/or Thatch Infesting Insects** and **Table 2-Surface Insects** for use rates and instructions.

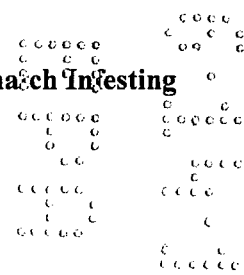


Table 1. Underground and/or Thatch Infesting Insects		
Pests	Use Rate	Instructions
Bluegrasses billbug ¹ (adult), Black turfgrass Ataenius (adult), Chiggers, Chinch bugs, White grubs ^{2,3} (Japanese beetle, European chafer, Southern chafer), Dung beetle, Hyperodes weevils (adult), European crane flies, Mole crickets ³ (nymphs & young adults)	0.5 fl oz (1 Tbs) in 1 gallon of water to cover 125 sq. ft. - or - 4 fl oz (½ cup) in 8 gallons of water to cover 1,000 sq. ft.	Do not apply more than 7 times per year per location ¹ Treat billbugs in May (or when first noticed). ² Treat for grubs in early July (or when first noticed) through October. ³ Sub-surface (mole crickets & grubs): Water treated area with ¼ to ½ inch of water following application.

Table 2. Surface Insects		
Pests	Use Rate	Instructions
Ants ¹ , Armyworms, Cockroaches, Crickets, Cutworms, Earwigs, Fleas, Lawn Moths (sod webworms), Millipedes, Mosquitoes, Palmetto bugs, Sowbugs, Mites, Spittlebugs, Deer ticks (which may transmit Lyme disease), Waterbugs ¹ Argentine, Southern, Field, Allegheny mound, Florida carpenter, Cornfield, Honey, Pavement, Nuisance.	For Light to <u>Moderate Infestations</u> 0.5 fl oz (1 Tbs) in 1 gallon of water to cover 250 sq. ft. - or - 2 fl oz (¼ cup) in 4 gallons of water to cover 1,000 sq. ft. <u>Heavy Infestations</u> 3 fl oz (6 Tbs) in 4 gallons of water to cover 1,000 sq. ft.	Do not apply more than 14 times per year per location. Do not water or mow for 24 hours following application.

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 3-Outdoor Surface Barrier Application** for use rates and instructions.

Table 3. Outdoor Surface Barrier Application		
Pests	Use Rate	Instructions
Ants ¹ , 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 ¹ 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 areas to reduce access by crawling insects.

		Repeat treatment every 8 weeks [2 months], as needed.
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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 lawns, 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 4-Outdoor Mosquito Control** for use rates and instructions.

Table 4. Outdoor Mosquito Control		
Use Site	Use Rate	Instructions
Lawns	<p style="text-align: center;"><u>For Light to Moderate Infestations</u></p> <p style="text-align: center;">0.5 fl oz (1 Tbs) in 1 gallon of water to cover 250 sq. ft.</p> <p style="text-align: center;">- or -</p> <p style="text-align: center;">2 fl oz (¼ cup) in 4 gallons of water to cover 1,000 sq. ft.</p> <p style="text-align: center;"><u>Heavy Infestations</u></p> <p style="text-align: center;">3 fl oz (6 Tbs) in 4 gallons of water to cover 1,000 sq. ft.</p>	<p>Completely wet grass a few hours prior to application. After application, do not water or mow for 24 hours.</p> <p>Do not apply more than 14 times per year per location.</p>
Outdoor Surfaces including ornamental plants next to building foundations, porches, buildings, screens, overhangs, window frames, garages, patios and other areas where mosquitoes are active	<p style="text-align: center;">0.5 fl oz (1 Tbs) in 1 gallon of water to cover 250 sq. ft.</p> <p style="text-align: center;">- or -</p> <p style="text-align: center;">2 fl oz (¼ cup) in 4 gallons of water to cover 1,000 sq. ft.</p>	<p>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 areas where mosquitoes may be active.</p> <p>Repeat treatment every 8 weeks [2 months], as needed.</p>

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 5-Ornamental Trees, Shrubs & Flowers Pest Control** for use rates and insects controlled.

Table 5. Ornamental Trees, Shrubs & Flowers Pest Control		
Use Site	Use Rate	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,	0.25 fl oz (½ Tbs) in 1 gallon of water to cover 250 sq. ft.	Ants ¹ , Armyworms, Aphids, Asian lady beetles, Azalea caterpillar, Bagworms, Black vine weevil (adult), Boxelder bugs, Bufworms, Cankerworms, Cockroaches, Crickets, Cutworms, Eastern tent caterpillar, Elm leaf beetles, European sawfly, Fall webworm, Flea beetles, Forest

<p>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>		<p>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</p> <p>¹Argentine, Allegheny mound, Black carpenter, Cornfield, Field, Florida carpenter, Harvester, Honey, Pavement, Southern, Sugar, Nuisance.</p>
	<p>0.5 fl oz (1 Tbs) in 1 gallon of water</p>	<p>Broadmites, Brown soft scale, California red scale (crawler), Clover mites, Mealybugs, Pineneedle scale (crawler), Spider mites, Whiteflies</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. See **Table 6-Vegetable Garden Insect Control** for use rates, crops, pre-harvest interval (PHI) and insects controlled.

6. Vegetable Garden Insect Control		
<p>Use Rate: 0.5 fl oz (1 Tbs) in 1 gallon of water to cover 300 sq. ft.</p>	<p>Instructions: Do not exceed pre-harvest interval* (number of days to wait between last application and harvest) for treated vegetables.</p> <p>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.</p>	
Crop	PHI*	Insects Controlled
<p>Broccoli, Brussels sprouts, Cabbage, Cavalo broccoli, Cauliflower, Chinese broccoli, Chinese cabbage, Chinese mustard, Kohlrabi</p>	<p>1 day</p>	<p>Alfalfa looper, Aphid, Armyworm, Beet armyworm, Cabbage looper, Cabbage webworm, Corn earworm, Cutworm, Diamondback moth, Fall armyworm, Flea beetle, Grasshopper, Imported cabbageworm, Japanese beetle¹, Leafhopper, Lygus bug, Meadow spittlebug, Plant bug, Southern cabbageworm, Spider mite, Stink bug, Thrips, Yellow-striped armyworm, Whitefly</p> <p>¹adult stages</p>
<p>Corn (sweet & pop)</p>	<p>21 days</p>	<p>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 beetle¹, Meadow spittlebug, Mexican corn rootworm beetle¹, Northern corn rootworm beetle¹, Sap beetle¹, Southern corn rootworm beetle¹, Southwestern corn borer, Stalk borer, Stink bug, Tobacco budworm, Western bean cutworm, Western corn rootworm beetle¹</p> <p>¹adult stages</p>

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Corn (sweet only)	21 days	Aphid, Aster leafhopper, Corn silk-fly ¹ , Southern armyworm, Spider mite, Tarnished plant bug, Western bean cutworm ¹ 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 ¹ , Leafhopper, Meadow spittlebug, Plant bug, Saltmarsh caterpillar, Southern armyworm, Spider mite, Stink bug, Tobacco budworm, Vegetable weevil ¹ , Whitefly ¹ adult stages
Onion (bulb) & Garlic	14 days	Aphid, Armyworm, Cutworm, Flower thrips, Leafminer ¹ , Onion maggot ¹ , Onion thrips, Plant Bug, Seedcorn maggot ¹ , Stink bug, Tobacco thrips, Western flower thrips ¹ 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

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.

If swallowed	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.
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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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.

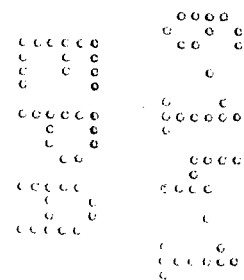
Buyer's Guarantee Limited to Label Claims.

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, Inc.
6301 Sutliff Road, Oriskany, NY 13424

[batch code inserted at production]

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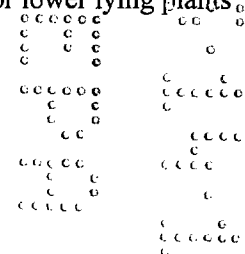


LAMBDA 0.5% CONCENTRATE

[Additional Brand Name(s): BONIDE® LAMBDA READY-TO-SPRAY. Beetle Killer; BONIDE® Beetle Killer, Caterpillar Killer, Bonide® Caterpillar Killer; Orchard™ Est. 1931 Yard & Garden Insect Killer Ready to Spray; Yard & Garden Insect Killer Ready to Spray]

Optional Marketing Statements

- Protects [For] lawns, vegetables, roses, flowers, trees, shrubs, ornamentals
- Kills [Controls] [For use on] Lawn & Garden insects, including ants, aphids, Asian lady beetle, chinch bugs, Colorado potato beetle, cutworms, deer ticks, elm leaf beetle, European crane flies, 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 and turf 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. [of lawn] (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, lawns 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, lawns, 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



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Optional Marketing Statements for Sub-registrants

Kills Mosquitoes and 110+ other insects

Backyard Pretreat

Perimeter Protection

Lasts up to 8 weeks

Covers up to 16,000 sq. ft.

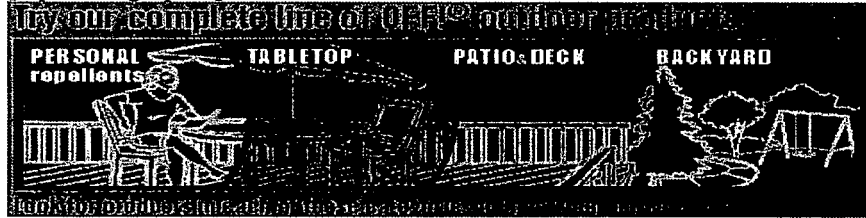
Kills and repels insects, including Japanese beetles and 110+ other insect pests.

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, Inc.

[Optional graphic]



ACTIVE INGREDIENT:

Lambda-cyhalothrin.....0.5%

OTHER INGREDIENTS:99.5%

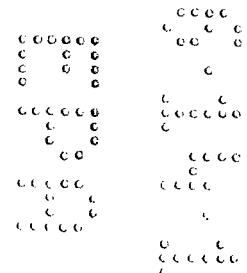
TOTAL:100.0%

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)



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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, European crane flies, fire ants and other listed insects.

[This product kills Lawn & 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.

Do not allow children or pets into the treated area until dry. Do not water the treated area to the point of run-off. Do not make applications during rain. All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- (1) Treatment to soil or vegetation around structures;
- (2) Applications to lawns, turf, and other vegetation;
- (3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only.

[In New York State, this product may not be applied to lawns 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.

LAWNS: Measure the area to be sprayed. See **Table 1-Underground and/or Thatch Infesting Insects** and **Table 2-Surface Insects** for use rates and instructions.

Table 1. Underground and/or Thatch Infesting Insects		
Pests	Use Rate	Instructions
Bluegrass billbug ¹ (adult), Black turfgrass Ataenius (adult), Chiggers, Chinch bugs, White grubs ^{2,3} (Japanese beetle, European chafer, Southern chafer), Dung beetle, Hyperodes weevils (adult), European crane flies, Mole crickets ³ (nymphs & young adults)	1 QT (32 fl oz) treats 8,000 sq. ft.	Do not apply more than 7 times per year per location. ¹ Treat billbugs in May (or when first noticed). ² Treat for grubs in early July (or when first noticed) through October.

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		³ Subsurface (mole crickets & grubs): Water treated area with ¼ to ½ inch of water following application.
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Table 2. Surface Insects		
Pests	Use Rate	Instructions
Ants ¹ , Armyworms, Cockroaches, Crickets, Cutworms, Earwigs, Fleas, Lawn Moths (sod webworms), Millipedes, Mosquitoes, Palmetto bugs, Sowbugs, Mites, Spittlebugs, Deer ticks (which may transmit Lyme disease), Waterbugs ¹ Argentine, Southern, Field, Allegheny mound, Florida carpenter, Cornfield, Honey, Pavement, Nuisance.	1 QT (32 fl oz) treats 16,000 sq. ft.	Do not apply more than 14 times per year per location. Do not water or mow for 24 hours following application.

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 3-Outdoor Surface Barrier Application** for use rates and instructions.

Table 3. Outdoor Surface Barrier Application		
Pests	Use Rate	Instructions
Ants ¹ , 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 ¹ 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 areas to reduce access by crawling insects. Repeat treatment every 8 weeks [2 months], as needed.

MOSQUITO CONTROL: Use on lawns, 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 4-Outdoor Mosquito Control** for use rates and instructions.

Table 4. Outdoor Mosquito Control		
Use Site	Use Rate	Instructions
Lawns	1 QT (32 fl oz) treats 16,000 sq. ft.	Completely wet grass a few hours prior to application. After application, do not water or mow for 24 hours.

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		Do not apply more than 14 times per year per location.
Outdoor Surfaces including ornamental plants next to building foundations, porches, buildings, screens, overhangs, window frames, garages, patios and other areas 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 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 5-Ornamental Trees, Shrubs & Flowers Pest Control** for insects controlled.

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>Ants¹, Armyworms, Aphids, Asian lady beetles, Azalea caterpillar, Bagworms², Black vine weevil (adult), Boxelder bugs, Broadmites, Brown soft scale³, Budworms, California red scale³ (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 scale³ (crawler), Pinetip moths, Plant bugs, Root weevil, Sawfly, Scale insects³ (crawlers), Spiders, Spider mites, Spittlebugs, Striped beetles, Striped oakworm, Thrips, Tip moth, Tussock moth larvae, Whiteflies</p> <p>¹Argentine, Allegheny mound, Black carpenter, Cornfield, Field, Florida carpenter, Harvester, Honey, Pavement, Southern, Sugar, Nuisance.</p> <p>²For bagworm control, apply when bagworm larvae start to hatch.</p> <p>³For 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 exceed pre-harvest interval* (number of days to wait between last application and harvest) for treated vegetables. 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 6-Vegetable Garden Insect Control** for crops, pre-harvest interval (PHI) and insects controlled.

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6. Vegetable Garden Insect Control		
Crop	PHI*	Insects Controlled
Broccoli, Brussels sprouts, Cabbage, Cavalo 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 ¹ , Leafhopper, Lygus bug, Meadow spittlebug, Plant bug, Southern cabbageworm, Spider mite, Stink bug, Thrips, Yellow-striped armyworm, Whitefly ¹ 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 ¹ , Meadow spittlebug, Mexican corn rootworm beetle ¹ , Northern corn rootworm beetle ¹ , Sap beetle ¹ , Southern corn rootworm beetle ¹ , Southwestern corn borer, Stalk borer, Stink bug, Tobacco budworm, Western bean cutworm, Western corn rootworm beetle ¹ ¹ adult stages
Corn (sweet only)	21 days	Aphid, Aster leafhopper, Corn silkfly ¹ , Southern armyworm, Spider mite, Tarnished plant bug, Western bean cutworm ¹ 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 ¹ , Leafhopper, Meadow spittlebug, Plant bug, Saltmarsh caterpillar, Southern armyworm, Spider mite, Stink bug, Tobacco budworm, Vegetable weevil ¹ , Whitefly ¹ adult stages
Onion (bulb) & Garlic	14 days	Aphid, Armyworm, Cutworm, Flower thrips, Leafminer ¹ , Onion maggot ¹ , Onion thrips, Plant Bug, Seedcorn maggot ¹ , Stink bug, Tobacco thrips, Western flower thrips ¹ 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

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

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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.	
If swallowed	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.
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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, Inc.
 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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