

# RESTRICTED USE PESTICIDE DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS

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



# RightLine

Doc. Id 565016

TM

Classified for  
"RESTRICTED USE"  
in New York State  
under 6NYCRR Part 326

ACCEPTED  
FOR REGISTRATION

Nov. 04, 2019

New York State Department  
of Environmental Conservation  
Pesticide Products Registration

## LAMBDA 1 EC

### ACTIVE INGREDIENT:

Lambda-cyhalothrin

[1 $\alpha$ (S\*), 3 $\alpha$ (Z)]-( $\pm$ )-cyano-(3-phenoxyphenyl)  
methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-  
2,2-dimethylcyclopropanecarboxylate

13.1%

**OTHER INGREDIENTS:** 86.9%

**TOTAL:** 100.0%

RightLine LAMBDA 1 EC contains 1 lb. of active ingredient  
per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

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

### 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 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 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.
- **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.

**NOTE TO PHYSICIAN:** Contains petroleum distillate-vomiting may cause aspiration pneumonia. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**HOT LINE NUMBER:** For Emergency Information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Mon.-Fri., 8:00 a.m. to 12:00 p.m. Pacific Time or your poison control center at 1-800-222-1222.

See inside label booklet for Precautionary Statements and Directions For Use including Storage and Disposal instructions.

### Distributed By:

RightLine LLC

385 Interlocken Crescent, Suite #240, Broomfield, CO 80021  
20171213

EPA Reg. No. 87290-24-93051

EPA Est. No. 37429-GA-002

**NET CONTENTS: 1 Gallon**

# **PRECAUTIONARY STATEMENTS**

## **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

### **WARNING/AVISO**

May be fatal if swallowed or inhaled. Causes substantial but temporary eye injury. Causes skin irritation. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Harmful if absorbed through skin. Wear appropriate protective clothing and eye wear as specified in the Personal Protective Equipment (PPE) section of this label. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hrs. after exposure and may last 2-30 hrs., without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below.

#### **Applicators and other handlers must wear:**

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, made of barrier laminate, nitrile rubber, neoprene rubber or Viton®  $\geq 14$  mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- For exposures in enclosed areas, use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter
- For exposures outdoors, use a NIOSH approved respirator with any R, P, or HE filter

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## **USER SAFETY RECOMMENDATIONS**

### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates and wildlife. 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 foraging the treatment area.

## **PHYSICAL AND CHEMICAL HAZARDS**

Combustible liquid. Do not use or store near heat or open flame.

## **DIRECTIONS FOR USE**

### **RESTRICTED USE PESTICIDE**

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

### **SHAKE WELL BEFORE USING.**

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.

## 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.**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, made of barrier laminate, nitrile rubber, neoprene rubber or Viton® ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

RightLine LAMBDA 1 EC can be used for the control of the listed insects on: turf and ornamentals and non-agricultural uses (Conifer and Deciduous Trees; see also under **Specific Use Directions**).

Initial and residual control is contingent upon thorough crop coverage. Apply with ground or aerial equipment using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gals./acre by air or 10 gals./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, RightLine LAMBDA 1 EC may be applied before, during, or after planting. For soil-incorporated applications, use higher rates for improved control.

## RESISTANCE MANAGEMENT

RightLine LAMBDA 1 EC is a Group 3 Insecticide. Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

## **SPRAY DRIFT PRECAUTIONS**

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES, OR NATURAL PONDS, ESTUARIES, AND COMMERCIAL FISH FARM PONDS.**

- Do not apply by ground within 25 ft. or by air within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, or natural ponds, estuaries, and commercial fish farm ponds. Increase the buffer zone to 450 ft. when ultralow volume (ULV) application is made.
- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or rotor diameter.
- Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Spray at the lowest height consistent with pest control and flight safety. Do not make applications more than 10 ft. above the crop canopy.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3-10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 ft. of the aquatic area so as to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- 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 applications. 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.

## TANK MIX APPLICATION

Fill the spray tank at least  $\frac{1}{2}$  full of clean water or diluents. With the pump and agitator running continuously, add the specified amount of each product in the tank mix to the spray tank and allow to fully disperse, adding RightLine LAMBDA 1 EC last. Add the remainder of water or diluent to the spray tank. Follow the precautions and limitations of the most restricted product in the tank mixture.

**Compatibility testing for tank mixing partners:** Test compatibility of the intended tank mixture by adding proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set for 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used.

## CHEMIGATION

### Sprinkler Irrigation Application

Apply RightLine LAMBDA 1 EC at rates and timing described elsewhere in this label. Consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types, rates and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with RightLine LAMBDA 1 EC 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 RightLine LAMBDA 1 EC 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. Inject the product 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.

If application is being made during a normal irrigation set of a stationary sprinkler, inject the specified rate of RightLine LAMBDA 1 EC for the area covered into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

Do not apply RightLine LAMBDA 1 EC 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 Applications

- A. Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. 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 non-uniform distribution of treated water.
- C. If you have any 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 back-flow.
- 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 are 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.

## **TURF AND ORNAMENTALS**

Make applications of RightLine LAMBDA 1 EC to ornamentals grown in commercial greenhouses, shade houses, and nurseries, and turf grown on sod farms or for commercial seed production.

Make applications of RightLine LAMBDA 1 EC to maintain indoor or outdoor areas where turf and ornamentals grow, such as non-residential landscapes around institutional, public, commercial, and industrial buildings, parks, recreational areas, golf courses, and athletic fields.

Make applications of RightLine LAMBDA 1 EC to golf course fairways, greens, greens aprons, and tee areas.

**IMPORTANT:** Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

**Do not** apply this product through any type of irrigation system for turf and ornamental uses.

**Do not** apply this product to edible crops or crops grown for food/feed when applied to turf or ornamentals.

**Do not** apply this product by aerial application for turf and ornamental uses.

## **SPRAY DRIFT PRECAUTIONS**

Observe restrictions found elsewhere on this label. Do not make applications when wind speed is 15 miles per hour or greater. Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperature.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when the wind direction is toward the aquatic area. Do not make outdoor applications during temperature inversions. Inversions are characterized by stable air and increasing temperature with height above ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

## **APPLICATION**

RightLine LAMBDA 1 EC mixes easily with water and may be used in all types of application equipment. Mix product with the required amount of water and apply as a dilute application to the point of runoff. Apply product using spray nozzles which produce a coarse droplet size. Formation of very small droplets may be minimized by appropriate nozzle selection and by avoiding excessive spray pressure. For application to plants like holly, pine, or ivy which have hard-to-wet foliage, add a spreader-sticker to enhance knockdown and increase residual activity. If application is made as a concentrate or mist-type application, use the same amount of product as would be used in a dilute application.



## MIXING

RightLine LAMBDA 1 EC is to be diluted with water for spray application and may be used in all types of application equipment. First fill application tank with  $\frac{1}{2}$  -  $\frac{3}{4}$  volume of water. It is suggested that the pH of the water be between 5 and 7; use a buffering agent if necessary to adjust the pH. Next slowly add RightLine LAMBDA 1 EC to the applicator tank water with maximum agitation. Finally, fill tank to desired volume and continue to agitate while making applications. If application is interrupted, agitate or re-suspend spray solution before resuming sprays. Always add RightLine LAMBDA 1 EC last if other chemicals are to be added to the applicator tank. If mixed with EC formulations or oils, use within 24 hours. Make up only amount of application volume as required. See mixing charts below.

**RightLine LAMBDA 1 EC Mixing Chart for Ornamental Insect Pest Control**

Use Rate per 100 gallons	1.3 fl. oz.	2.6 fl. oz.	4.4 fl. oz.
Spray Tank Volume (gallons)	Amount of RightLine LAMBDA 1 EC to use		
25	0.33	0.65	1.1
50	0.65	1.3	2.2
100	1.3	2.6	4.4
200	2.6	5.2	8.8
300	4.0	7.9	13.3

**RightLine LAMBDA 1 EC Mixing Chart for Turf Insect Pest Control**

Use Rate per Acre	4.4 fl. oz.	8.8 fl. oz.	17.6 fl. oz.
Application Volume (GPA)	Amount of RightLine LAMBDA 1 EC to use per 100 gallon spray tank		
2	5.0	10.0	20.0
4	2.5	5.0	10.0
6	1.7	3.3	6.7
8	1.2	2.5	5.0
10	1.0	2.0	4.0

**Conversion Rate:** 1 Fluid ounce (fl. oz.) equals 29.6 milliliters (mL).

## COMPATIBILITY

RightLine LAMBDA 1 EC has been found to be compatible with most commonly used fungicides, miticides, liquid fertilizers, and other insecticides. Use ajar test to check physical compatibility using the correct proportion of products if local experience is unavailable.

**Note:** While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution. It is advised to prespray a selection of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

## USE INSTRUCTIONS

### ORNAMENTALS

Ornamentals in Greenhouses, Shadehouses, and Nurseries

Ornamentals (including Trees, Shrubs, Flowers, Evergreens, Foliage Plants, and Ground Covers) in Landscaped Areas Around Institutional, Public, Commercial, and Industrial Buildings, Parks, Recreational Areas, Golf Courses, and Athletic Fields

Pest	Rate of RightLine LAMBDA 1 EC per 100 gallons	Instructions
Ants (Including Imported fire ants) Aphids Armyworms Azalea Caterpillars Bagworms <sup>1</sup> Black Vine Weevils (Adult) Boxelder Bugs Budworms California Oakworms Cankerworms Cockroaches Crickets Cutworms Eastern Tent Caterpillars Elm Leaf Beetles European Sawflies Fall Webworms Flea Beetles Forest Tent Caterpillars Gypsy Moth Larvae Japanese Beetles (Adult) June Beetles (Adult) Lace Bugs Leaf-feeding Caterpillars Leafhoppers Leafminers (Adult) Leaf Rollers Leaf Skeletonizers Midges (continued)	1.3 - 4.4 fl. oz. (38 - 128 mL)	<p>Begin application to ornamentals before high insect pest populations become established. Reapply as necessary to keep pest populations under control, using higher rates as pest pressure increases.</p> <p>Good spray coverage is necessary to provide the most effective level of control. For ornamentals with waxy, hard-to-wet foliage, add a spreader-sticker at recommended rates to enhance the control of insects.</p> <p>For spot treatments, use 0.44 fl. oz. RightLine LAMBDA 1 EC per 1-2.5 gallons of water.</p> <p>Apply at 7-day intervals if retreatment is necessary.</p> <p><b>Do not</b> apply more than 0.36 lb. a.i. (46 fl. oz. of product)/A per year.</p> <p>Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.</p> <p><sup>1</sup><b>Bagworm:</b> Apply RightLine LAMBDA 1 EC when bagworm larvae begin to hatch and spray directly on the larvae. Control will be best if the larvae are young.</p> <p>(continued)</p>

# ORNAMENTALS (continued)

Pest	Rate of RightLine LAMBDA 1 EC per 100 gallons	Instructions
<p>Mosquitoes  Oleander Moth Larvae  Pillbugs  Pine Sawflies  Pine Shoot Beetles  Pine Tip Moths  Plant Bugs  Root Weevils  Sawflies  Scale Insects (Crawlers)<sup>2</sup>  Spiders  Spittlebugs  Striped Beetles  Striped Oakworms  Thrips  Tip Moths  Tussock Moth Larvae  Wasps</p>	<p>1.3 - 4.4 fl. oz.  (38 - 128 mL)</p>	<p>Begin application to ornamentals before high insect pest populations become established. Reapply as necessary to keep pest populations under control, using higher rates as pest pressure increases.</p> <p>Good spray coverage is necessary to provide the most effective level of control. For ornamentals with waxy, hard-to-wet foliage, add a spreader-sticker at recommended rates to enhance the control of insects.</p> <p>For spot treatments, use 0.44 fl. oz. RightLine LAMBDA 1 EC per 1-2.5 gallons of water.</p> <p>Apply at 7-day intervals if retreatment is necessary.</p> <p><b>Do not</b> apply more than 0.36 lb. a.i. (46 fl. oz. of product)/A per year.</p>
<p>Broad Mites  Brown Soft Scales  California Red Scales (Crawler)  Clover Mites  Mealybugs  Pine Needle Scales (Crawler)  Spider Mites  Whiteflies</p>	<p>2.6 - 4.4 fl. oz.  (75 - 128 mL)</p>	<p>Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.</p> <p><sup>2</sup><b>Scale:</b> Cover the plant thoroughly with RightLine LAMBDA 1 EC spray, including trunks, stems, twigs, and foliage.</p>

## TURFGRASS

### Sod Farms

Lawns around Institutional, Public, Commercial, and Industrial Buildings, Parks, Recreational Areas, Golf Courses, and Athletic Fields, Golf Course and Athletic Field Turf

Pest	Amount of RightLine LAMBDA 1 EC	Instructions
Ants (Including Imported fire ants) Armyworms Centipedes Crickets Cutworms Earwig Fleas (Adult) Grasshoppers Japanese Beetles (Adult) Millipedes Mites Pillbugs Sod Webworms Sow Bugs Ticks (Including species which transmit Lyme disease)	2.9 - 6 mL/1,000 sq. ft. (4.4 - 8.8 fl. oz./A)	Begin application to turf before the establishment of high insect pest populations and before significant turf damage has occurred. Reapply as necessary to keep pest populations under control, using higher rates as pest pressure increases. Apply at 7-day intervals if retreatment is necessary.  <b>Do not</b> apply more than 0.36 lb. a.i. (46 fl. oz. of product)/A per year.  For spot treatments, use 0.44 fl. oz. of RightLine LAMBDA 1 EC per 1-2.5 gals. of water.
Bluegrass Billbugs (Adult) Black Turfgrass Ataenius (Adult) Chiggers Fleas (Adult) Grub (Suppression) Hyperodes Weevils (Adult) Mole Crickets (Nymphs and Young Adults)	6 mL/1,000 sq. ft. (8.8 fl. oz./A)	<b>Do not</b> apply when turfgrass is waterlogged or when soils are saturated with water (i.e., will not accept irrigation).  Keep children and pets off treated areas until spray has dried following the application.
Chinch Bugs Mole Crickets (Mature Adults) (Not for use on mature adult mole crickets and chinch bugs in New York State.)	12 mL/1,000 sq. ft. (17.6 fl. oz./A)	See additional instructions below for specific pests.

(continued)

## TURFGRASS (continued)

Pest	Amount of RightLine LAMBDA 1 EC	Instructions
<b>Armyworms, cutworms, fleas, and other Surface Insects:</b> For best results, apply RightLine LAMBDA 1 EC in 2-5 gals. of water per 1,000 sq. ft. If high rainfall amounts are forecast, a spreader-sticker may be useful; otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12-24 hours for optimum control of surface-feeding insect pests.		
<b>Chinch bugs, billbugs, and other Thatch Inhabiting Insects:</b> For best results, apply RightLine LAMBDA 1 EC in 2-10 gals. of water per 1,000 sq. ft. Use of a nonionic wetting agent, penetrant, or similar adjuvant at label rates. Irrigate lightly after application with up to ½ inch of water to move the RightLine LAMBDA 1 EC into the thatch layer. If irrigation is not available, then use high water application rates for optimum results.		
<b>Mole crickets, grubs, and other Subsurface Insects:</b> For best results, apply RightLine LAMBDA 1 EC in 4-10 gals. of water per 1,000 sq. ft. Use a nonionic wetting agent, penetrant, or similar adjuvant following label rates. Use the highest water application rates possible with your sprayer. Apply RightLine LAMBDA 1 EC to turf which is wet with dew, rain, or irrigation. Water-in immediately after application with ¼ - ½ inch of water for optimum results.		
<b>Fire Ants:</b> Treat individual mounds with a drench application by means of a watering can. Use 0.32 fl. oz. of RightLine LAMBDA 1 EC per 2.5 gals. of water. Thoroughly soak each mound as well as a 3 ft. diameter circle around each mound. Apply the mixture gently to avoid disturbing the mound; disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. For best results, apply in early morning or late evening hours. Make additional treatments if necessary, but not more than every 7 days.		
<b>Mosquitoes:</b> Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. For best results, apply RightLine LAMBDA 1 EC in 2-5 gals. of water per 1,000 sq. ft.		

## NON-AGRICULTURAL USES

Crop	Target Pests	Rate	
		Lb. a.i./A	Fl. Oz./A
CONIFER AND DECIDUOUS TREES			
Plantations and Nurseries	Bagworm Balsam Twig Aphid Balsam Woolly Aphid Birch Leafminer Black Pine Weevil Elm Leaf Beetle European Elm Bark Beetle Gypsy Moth Japanese Beetle June Beetle species Leaf Beetle species Leafroller species May Beetle species Mealybug species <sup>1</sup> Pales Weevil Pine Chafer Pine Colaspis Beetle Pine Conelet Bug Pine Leaf Chermid Pine Needle Scale Pine Sawfly species Pine Tip Moth species Pine Tortoise Scale Pine Weevil species Poplar Aphid species Sawfly species Spittlebug species Spruce Budworm Tent Caterpillar species Tussock Moth species Webworm species	0.02-0.04	2.56-5.12

(continued)

<sup>1</sup> Suppression only.

## CONIFER AND DECIDUOUS TREES (Continued)

### Remarks:

- 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 per acre.
- **Do not** apply more than 0.24 lb. a.i. (1.92 pts.)/A per year.

Crop	Target Pests	Rate	
		Lb. a.i./A	Fl. Oz./A
CONIFER AND DECIDUOUS TREES			
Seed Orchards	Coneworm species Seed Bug species Thrips species	See Remarks	See Remarks

### 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.
- For low volume sprayers, dilute 20 fl. oz. per 100 gals. of water and apply 100 gals. of finished spray per acre.
- For aerial applications, apply 15 fl. oz./A in a minimum of 10 gals. finished spray per acre.
- **Do not** apply more than 0.5 lb. a.i. (4 pts.)/A per year.

Crop	Target Pests	Rate	
		Lb. a.i./A	Fl. Oz./A
NON-CROPLAND (EXCLUDING PUBLIC LAND)			
	See Crop Outlets on this RightLine LAMBDA 1 EC label for target pests and rates.	See Crop Outlets	See Crop Outlets

**Remarks:**

- 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.
- **Do not** exceed 0.2 lb. a.i. (1.6 pts.) per acre 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 Gal.
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

## Prohibitions

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

## 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 (EQUAL TO OR LESS THAN 5 GALLONS):** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: 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  $\frac{1}{4}$  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. Offer for recycling, if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of RightLine LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold RightLine LLC and Seller harmless for any claims relating to such factors.

RightLine LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or RightLine LLC, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, RIGHTLINE LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL. To the extent permitted by applicable law, in no event shall RightLine LLC be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF RIGHTLINE LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF RIGHTLINE LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

RightLine LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of RightLine LLC.

Viton® is a registered trademark of E.I. DuPont de Nemours and Company.

## RESTRICTED USE PESTICIDE

### DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS

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



RightLine™

LAMBDA 1 EC

#### ACTIVE INGREDIENT:

Lambda-cyhalothrin

[1a(S\*), 3a(Z)]-(±)-cyano-(3-phenoxyphenyl)  
methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-  
2,2-dimethylcyclopropanecarboxylate..... 13.1%

**OTHER INGREDIENTS:**..... 86.9%

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

RightLine LAMBDA 1 EC contains 1 lb. of active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

### 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 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 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. **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. **NOTE TO PHYSICIAN:** Contains petroleum distillate-vomiting may cause aspiration pneumonia. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **HOT LINE NUMBER:** For Emergency Information concerning this product, call the National Pesticides Information Center (NPIC) at **1-800-858-7378** Mon.-Fri., 8:00 a.m. to 12:00 p.m. Pacific Time or your poison control center at **1-800-222-1222**.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING/AVISO

May be fatal if swallowed or inhaled. Causes substantial but temporary eye injury. Causes skin irritation. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Harmful if absorbed through skin. Wear appropriate protective clothing and eye wear as specified in the Personal Protective Equipment (PPE) section of this label. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hrs. after exposure and may last 2-30 hrs., without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates and wildlife. 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 foraging the treatment area.

See inside label booklet for additional Precautionary Statements, Directions For Use, and Storage and Disposal.

EPA Reg. No. 87290-24-93051

EPA Est. No. 37429-GA-002

#### Distributed By:

RightLine LLC

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NET CONTENTS: 1 Gallon

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