

Martin's

Cyonara Lawn & Garden Insect Control

For outdoor use around the home only.

Covers up to 16,000 sq. ft. of lawn
Fast acting with up to 8 weeks Residua
Controls Mosquitoes, Chinch Bugs, Fleas, Grubs, Aphids, Fire Ants & Mites

Active Ingredient:

Lambda-cyhalothrin	0.5%
Other Ingredients:	<u>99.5%</u>
Total:	100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See attached booklet for additional precautionary statements.

EPA Reg. No. 53883-197

EPA Est. No. 53883-TX-002

Net Contents 32 FL. OZ

**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.	
If swallowed:	<ul style="list-style-type: none">• Call a Poison Control Center or doctor immediately for treatment advice.• Have a 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:	<ul style="list-style-type: none">• 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.
For medical emergencies call SafetyCall (866) 897-8050.	

Environmental Hazards

This product is extremely toxic to fish. Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

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.

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.

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.

READ THE ENTIRE LABEL BEFORE USE.

GENERAL INFORMATION

Lambda 0.5% Concentrate kills grubs, ants, fleas, chinch bugs, mosquitoes, sod webworms, aphids, beetles, whiteflies, mites, deer ticks, Japanese beetles, European crane flies, fire ants and other listed insects.

MIXING AND APPLICATION

1. Apply as directed.
2. In a CLEAN sprayer, measure and mix the amount of product and water as stated in the tables below.
3. When handling pesticide products, it is a good idea to wear disposable gloves. Do not use kitchen utensils such as measuring cups and spoons for food purposes after they have been used with pesticides.
4. Spray as directed. It is important to achieve complete coverage.
5. Flush sprayer with clean water following each use.

Treat when insects begin to appear and repeat treatment to maintain control only as directed. Apply as directed, keeping in mind that complete coverage is crucial. Make certain to follow the important use limitations such as, the amount of spray to apply and the PHI (Pre-Harvest Interval) for the particular vegetable you are treating.

MEASUREMENT CONVERSIONS

1 tablespoon = 3 teaspoons

1 fl. oz. = 6 teaspoons or 2 tablespoons

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

1 $\frac{1}{2}$ tablespoons in 3 gallons of water = 1 $\frac{1}{2}$ teaspoons in 1 gallon of water

2 tablespoons in 3 gallons of water = 2 teaspoons 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 (vinyl siding in particular), test in a hidden area and recheck in a few hours. If any staining is observed, do not use this product.

LAWNS

APPLICATION INSTRUCTIONS: Measure the area to be sprayed and follow the mixing instructions in the tables below. Treat when insects begin to appear and repeat treatment to maintain control as directed. Apply as directed, keeping in mind that complete coverage is crucial.

Underground Insects/Thatch Infesting Insects

Pests	Rate	Comments
Blue grass billbug ¹ (adult) Black turfgrass Ataenius (adult) Chiggers Chinch bugs White grubs ² (Japanese beetle, European chafer, Southern chafer) Dung beetle Hyperodes weevils (adult) European crane flies Mole crickets (nymphs and young adults)	Mix 0.5 fl. oz. (1 tablespoon) in 1 gallon of water to treat 125 sq. ft. Mix 4 fl. oz. in 8 gallons of water to treat 1,000 sq. ft.	Sub-surface insect control (mole crickets & grubs): For the best results water the treated area with an additional ¼ to ½ inch of water. 1 quart of Lambda 0.5% Concentrate 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 from the beginning of July to the end of October or when first noticed.		

Surface Insects

Pests	Rate	Comments
Ants* 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	Mix 0.5 fl. oz. (1 tablespoon) in 1 gallon of water to treat 250 sq. ft. Mix 2 fl. oz. (4 tablespoon) in 4 gallons of water to treat 1000 sq. ft.	Completely wet grass a few hours prior to application. To achieve the best control of surface insects, postpone additional watering or mowing for 24 hours following treatment. The use rate can be increased to 3 fl. oz. per 1,000 sq. ft. for heavy insect infestations. 1 quart of Lambda 0.5% Concentrate treats 16,000 sq. ft. Do not apply more than 14 times per year per location.
*Argentine, Southern, Field, Alleghent mound, Florida carpenter, Cornfield, Honey, Pavement, Nuisance.		

PESTS OUTSIDE THE HOME

Lambda 0.5% Concentrate is for use on ornamental plants next to building foundations, to surfaces of porches, buildings, screens, overhangs, window frames, garages, patios and other areas where these pests are active.

BARRIER APPLICATION INSTRUCTIONS: Treat when insects begin to appear and repeat treatment to maintain control as directed. Apply a continuous band of insecticide around the foundation of the building, windows, vents, overhangs, doors and other areas to significantly decrease possible access by crawling pests. For optimum results, remove any leaf litter and debris around the foundation. Cut back any branches or vegetation that come into contact with the foundation. Rake back deep mulch and remove any other material that may serve as harborage sites for pests.

Outdoor Surfaces Use

Pests	Rate	Comments
Ants* Centipedes Cockroaches Crickets Fleas Millipedes Mosquitoes Palmetto bugs Scorpions Sowbugs Pillbugs Spiders Deer ticks Waterbugs	Mix 0.5 fl. oz. (1 tablespoon) in 1 gallon of water.	Apply a 3 ft. band around the building and upwards along the foundation to 3 feet and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active. 1 gallon will treat 250 sq. ft. of surface area. Repeat treatment every 8 weeks (2 months).
*Argentine, Southern, Field, Allegheny mound, Florida carpenter, Conrfield, Honey, Pavement, Nuisance.		

FIRE ANT MOUNDS

Mix 1.0 fl. oz. (2 tablespoons) in 1 gallon of water and thoroughly wet each mound and a 4 ft. diameter surrounding the mound. To achieve optimum results, treat in cool weather (65°-80°F), or in the early morning or late evening hours. Apply to new mounds as they appear and do not disrupt mounds before treatment. Kills the entire mound and the queen in 24 hours.

ORNAMENTAL TREES, SHRUBS AND FLOWERS

APPLICATION INSTRUCTIONS: Apply thoroughly as a foliar cover spray to both sides of plant leaves and all plant surfaces where insects are present. For optimum results, apply early prior to high insect populations. Repeat applications as directed to maintain control.

NOTE:

- For **Scale** control, treat the whole plant, including the stem, trunks, and twigs.
- For **Bagworm** control, apply when bagworm larvae start to hatch.

Use Sites	Rate	Insects Controlled
For use on ornamental trees, shrubs and flowers, such as, but not limited to: Ageratum, Ash, Aster, Arborvitae, Arizona Cypress, Azaleas, Begonia, Birch, Boxwood, Box Elder, Camellias, Cherry (ornamental), Non-bearing Citrus, Chrysanthemums, Carnations, Coleus, Common Ninebark, Conifers, Douglas Fir, Elm, English Ivy, Euonymus, Exacum, Weeping	Mix 0.25 fl. oz. (1/2 tablespoon) in 1 gallon of water.	Ants*, Armyworms, Aphids, 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 beetles (Adults), June beetles (Adults), Lace bugs, Leaf feeding caterpillars, Leafhoppers, Leafminers (Adults), Leaf rollers, Leaf

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.		skeletonizers, Midges, Oleander moth larvae, Pillbug, 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
	Mix 0.5 fl. oz. (1 tablespoon) in 1 gallon of water.	Broadmites, Brown softscale, California redbelt (crawler), Clover mites, Mealybugs, Pineneedle scale (crawler), Spider mites, Whiteflies
* Allegheny mound, Argentine, Black carpenter, Cornfield, Field, Florida carpenter, Harvester, Honey, Pavement, Southern, Sugar, Nuisance.		

VEGETABLES

APPLICATION INSTRUCTIONS: Apply when insects first appear or when damage occurs. For complete coverage, spray all plant surfaces that are infested with pests. Make certain to follow the important use limitations such as, the amount of spray to apply and the PHI (Pre-Harvest Interval) for the particular vegetable you are treating.

RATE: Measure the area to be sprayed. Mix 0.5 fl. oz. (1 tablespoon) in 1 gallon of water per 300 sq. ft.

NOTE: Do not apply more than 5 times per growing season to corn. For all other crops do not apply more than 9 times per growing season.

Vegetables	Insects Controlled	PHI*
Broccoli Brussels Sprouts Cabbage Cavalo Broccoli Cauliflower Chinese Broccoli Chinese Cabbage Chinese Mustard Kohlrabi	Alfalfa Looper, Aphid, Armyworm, Beet Armyworm, Cabbage Looper, Cabbage Webworm, Corn Earworm, Cutworm, Diamondback Moth, Fall Armyworm, Flea Beetle, Grasshopper, Imported Cabbageworm, Japanese Beetle (Adult), Leafhopper, Lygus Bug, Meadow Spittlebug, Plant Bug, Southern Cabbageworm, Spider Mite, Stink Bug, Thrips, Yellow-striped Armyworm, Whitefly	1
Corn (sweet and pop)	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 (Adult), Meadow Spittlebug, Mexican Corn Rootworm Beetle (Adult), Northern Corn Rootworm Beetle (Adult), Sap Beetle (Adult), Southern Corn Rootworm Beetle (Adult), Southwestern Corn Borer, Stalk Borer, Stink Bug, Tobacco Budworm, Western Bean Cutworm, Western Corn Rootworm Beetle (Adult)	21
Corn (sweet only)	Aphid, Aster Leafhopper, Corn Silkfly (Adult), Southern Armyworm, Spider Mite, Tarnished Plant Bug, Western Bean Cutworm	21

Lettuce (head and leaf)	Aphid, Alfalfa Looper, Armyworm, Beet Armyworm, Cabbage Looper, Corn Earworm, Cutworm, Diamondback Moth, European Corn Borer, Fall Armyworm, Flea Beetle, Grasshopper, Green Cloverworm, Imported Cabbageworm, Japanese Beetle (Adult), Leafhopper, Meadow Spittlebug, Plant Bug, Saltmarsh Caterpillar, Southern Armyworm, Spider Mite, Stink Bug, Tobacco Budworm, Vegetable Weevil (Adult), Whitefly	1
Onion (bulb) and Garlic	Aphid, Armyworm, Cutworm, Flower Thrips, Leafminer (Adult), Onion Maggot (Adult), Onion Thrips, Plant Bug, Seedcorn Maggot (Adult), Stink Bug, Tobacco Thrips, Western Flower Thrips	14
Tomato and Tomatillo	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	5
* PHI = Pre-Harvest Interval. Number of days to wait between the last application and harvest.		

STORAGE AND DISPOSAL

Storage: Store in a cool dry area away from heat or open flame.

If empty: Do not reuse this container.

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

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