

48665-6

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 12, 2012

Ms. Peggy M. Galloway,  
Regulatory Agent for Shoo-Fly  
c/o Landis International, Inc.  
P.O. Box 5126  
Valdosta, GA 31603-5126

**Subject: Amended Labeling; Response to EPA Letter of September 28, 2010  
SHOO-FLY Concentrate 1 Misting Concentrate, EPA Reg. No. 48665-6  
Your Submission Dated October 20, 2011**

Dear Ms. Galloway:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable with the following provision(s):

Ingredient Statement section comment(s):

1. To facilitate inclusion of required language from the REDs for pyrethrins and piperonyl butoxide (updated label tables for pyrethrins/piperonyl butoxide combination products), you must:
  - Revise the listing of "\*Piperonyl butoxide, Technical" to read "\*Piperonyl butoxide"
  - Revise the footnote to read "(butylcarbityl)(6-propylpiperonyl) ether and related compounds"

Precautionary Statements, Personal Protective Equipment (PPE) subsection comment(s):

2. To facilitate inclusion of required language from the REDs for pyrethrins and piperonyl butoxide (updated label tables for pyrethrins/piperonyl butoxide combination products), you must add the following text immediately following the "Precautionary Statements, Hazards to Humans and Domestic Animals" subsection:

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**All pesticide handlers must wear:**

- Long-sleeved shirt
- Long pants
- Shoes and socks

**User Safety Requirements**

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. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

**User Safety Recommendations**

Users should:

- Wash hands thoroughly with plenty of soap and water after handling, and 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.

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A copy of your label stamped "Accepted with Comments" is enclosed for your records. Please submit two (2) copies of the final printed labeling, incorporating the above changes, before releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with section 6(e) of FIFRA. Your release for shipment of the product bearing amended labeling constitutes accepting of these conditions.

If you have any questions, please contact Mr. Carmen J. Rodia, Jr. at (703) 306-0327 or via e-mail at [Rodia.Carmen@epa.gov](mailto:Rodia.Carmen@epa.gov).

Sincerely yours,



Richard J. Gebken,  
Product Manager (10)  
Insecticide Branch,  
Registration Division (7504P)

Enclosure: *Copy of label stamped "Accepted with Comments"*  
048665-00006 D457572

ACCEPTED  
With COMMENTS  
In EPA Letter Dated:  
*January 12, 2012*  
Under the Federal Insecticide, Fungicide  
and Rodenticide Act, As amended, for the  
pesticide Registered under EPA Reg. No:

*48665-6*

## CONCENTRATE 1 MISTING CONCENTRATE

- A micro-emulsion, water-base spray
- Kills Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus.
- Kills Stable Flies, Horse Flies, Face Flies, Deer Flies, House Flies, Mosquitoes, and Gnats.
- Kills Deer Ticks and other tick species that may carry and transmit Lyme Disease.
- CONCENTRATE 1 kills listed insects without objectionable residues.

**ACTIVE INGREDIENTS:**

Pyrethrins.....	3.00%
Piperonyl butoxide, Technical.....	30.00%
<b>OTHER INGREDIENTS.....</b>	<b>67.00%</b>
	<b>100.00%</b>

\*Equivalent to min. 24% (butylcarbitol) (6-propylpiperonyl) ether and 6% related compounds

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

<b>IF SWALLOWED:</b>	<p style="text-align: center;"><b>FIRST AID</b></p> <ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-888-740-8712 twenty-four (24) hours per day, seven (7) days per week.</p>	

EPA Reg. No. 48665-6

EPA Est. No. 1021-WN-2

NET CONTENTS 1 GALLON

Manufactured by:



10337 North US Highway 27 • Ocala, FL 34462 • (352) 351-5858 • 1-800-249-5658

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS**

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through run-off. This water has a potential for run-off for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce run-off that contains this product.

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

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsale. See Directions for Use for additional precautions and restrictions.

**PHYSICAL OR CHEMICAL HAZARDS**

Combustible. Do not use this product in or on electrical equipment because of shock hazard.

**TO KILL EXPOSED ACCESSIBLE STAGES OF THE FOLLOWING LISTED INSECTS:**

Almond Moths	Confused Flour Beetles	Horn Flies	Rice Weevils
Angoumois Grain Moths	Crickets	Horse Flies	Rusty Grain Beetles
Ants	Dark Mealworms	Indian Meal Moths	Saw-toothed Grain Beetles
Bed Bugs	Darkling Beetles	Khapra Beetles	Sheep Ticks
Black Carpenter Ants	Deer Flies	Lesser Grain Borers	Silverfish
Black Flies	Deer Ticks	Lesser House Flies	Skipper Flies
Black Widow Spiders	Dermsid Beetles	Lice	Small Flying Moths
Blood Sucking Lice	Dog Flies	Med. Flour Moths	Sowbugs
Boxelder Bugs	Dried Fruit Beetles	Merchant Grain Beetles	Spider Beetles
Brown Dog Ticks	Drugstore Beetles	Midges	Stable Flies
Caddises	Earwigs	Miller Moths	Ticks - that may carry and transmit
Carpet Beetles	Face Flies	Millipedes	Lyme disease
Cat Fleas	Fannia Flies	Mosquitoes - including the Culex	Tobacco Moths
Cellar Spiders	Firebrats	species that may carry and transmit	Tropodermia Beetles
Cereal Beetles	Fruit Flies	the West Nile Virus	Warehouse Beetles
Cheese Mites	Grubs	Palmeria Bugs	Wasps
Cheese Shippers	Grain Mites	Poultry Lice	Waterbugs
Chocolate Moths	Granary Weevils	Red Flour Beetles	Yellow Mealworms
Cigarette Beetles	Hornets	Rice Flour Beetles	Yellow Jackels
Cockroaches			

**FOR USE IN INDOOR AREAS such as:**

Animal Areas  
Animal Control Centers  
Animal Quarters  
Animal Shelters  
Apartments  
Attics  
Auditoriums  
Automobiles  
Bakeries  
Bars  
Basements  
Bathrooms  
Bedding  
Bedrooms  
Beef Barns  
Beverage Plants  
Boats  
Bookcases  
Bottling Plants  
Breweries  
Brewery Warehouses  
Buildings Housing Animals  
Buildings Housing Poultry  
Buses  
Cabinets  
Cabins  
Cafeterias  
Calving Barns  
Camp Sites  
Canneries  
Carports  
Cattle Barns  
Churches  
City Missions  
Circus Tents  
Closed Porches  
Closets  
Clothes Storage  
Club Houses  
Commercial Buildings  
Condominiums  
Crawl Spaces  
Credenza

Horse Stables and Barns  
Horse Trailers  
Hospices  
Hospitals  
Hotels  
Household Contents  
Indoor Eating Buildings  
Industrial Installations  
Industrial Plants  
Institution Dining Areas  
Institutions  
Jails  
Kennels  
Kitchens  
Laboratories  
Lanais  
Laundromats  
Lodgings  
Egg Processing Plants  
Fabric Storage Areas  
Factories  
Farm Structures  
Faux Ceilings  
Floors  
Food Processing Plants  
Food Storage Areas  
Freight Containers  
Fruit Packing Sheds  
Funeral Parlors  
Furniture  
Garages  
Garbage Bins  
Garbage Cans  
Garbage Compactors  
Gazebos  
Goat Holding Areas  
Grain Elevators  
Grain Handling Equipment  
Grain Mills  
Grain Storage  
Granaries  
Grocery Stores  
Hog Barns  
Homes

Outdoor Eating Buildings  
Pantries  
Parking Garages  
Patios  
Pet Bedding  
Pet Carriers  
Pet Grooming Parlors  
Pet Sleeping Areas  
Pet Stores  
Planes (cargo area only)  
Play Houses  
Play Rooms  
Pool Halls  
Porches  
Poultry Houses  
Poultry Plants  
Pounds  
Prisons  
Public Storage  
Quonset Huts  
Rabbit Processing Plants  
Railroad Cars  
Recreational Vehicles  
Research Animal Quarters  
Restaurants  
Retail Stores  
Rice Mills  
Rooms  
Schools  
Mattresses  
Mausoleums  
Meat Packing Plants  
Meat Storage  
Ships  
Ships  
Ship Holds  
Smoke Shops  
Solariums  
Sport Stadiums  
Stable Bins  
Stables  
Storage Areas  
Stored Food (bags)  
Stored Products  
Stores  
Sun Porches  
Sun Rooms  
Nursing Homes  
Office Buildings  
Swine Houses  
Taverns

(continued)

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**FOR USE IN INDOOR AREAS such as: (continued)**

Tents  
Textile Mills  
Theaters  
Tobacco Factories  
Tobacco Warehouses  
Tool Sheds  
Trailers

Utilities  
Utility Rooms  
Vending Machines  
Verandas  
Veterinary Clinics  
Voids in Attics  
Warehouses

Washrooms  
Wheat Mills  
Wholesale Stores  
Wine Cellars  
Wineries  
Zoos

**FOR USE IN OUTDOOR AREAS such as:**

Alleys  
Amphitheaters  
Amusement Parks  
Ant Hills  
Back Yards  
Balconies  
Baseball Fields  
Beaches  
Bridges  
Campgrounds  
Carwashes  
Circuses  
Construction Sites  
Corrals

Sanitary Sewers  
Sidewalks  
Side Yards  
Stadiums  
Tennis Courts  
Truck Stops  
Underpasses  
Utility Room Outdoor  
Weigh Stations  
Wild Animal Parks  
Wood Piles  
Zoos

Levees  
Manholes  
Manure Piles  
Marinas  
Outdoor Eating Establishments  
Parking lots  
Pavils  
Playgrounds  
Ranges  
Recreational Areas  
Rest Areas  
Roadsides  
Roof tops

**FOR USE ON:**

Beefalo  
Birds  
Buffalo  
Caves  
Cattle - Beef  
Cattle - Dairy  
Chickens  
Donkeys  
Ducks  
Exotics such as European Red Deer  
Emus  
Geese  
Horses  
Lambs

**DIRECTIONS FOR USE**

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

**USE RESTRICTIONS**

- Apply this product only as specified on this label.
- Do not contaminate food or feedstuffs.
- Do not use in aircraft cabins.
- Do not wet articles to point of run-off. Do not use treated article until spray has dried.
- Do not allow adults, children or pets to enter until aerosols, vapors and/or mists have dispersed, and the treated area has been thoroughly ventilated.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed.
- Remove or cover exposed food and drinking water before application. Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.

(continued)

**USE RESTRICTIONS (continued)**

- For indoor food handling/processing facilities: Do not make space spray applications when facility is in operation. During space spray applications, cover or remove exposed food. During space spray applications, cover food processing surfaces or clean after treatment with a suitable detergent, rinse with potable water before use.
- For use in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milk-utensils before application. Wash teats of animals before milking.
- For use in commercial animal premise automatic misting systems: Do not apply when food, feed and/or water is present. Do not use in an evaporative cooling system. Do not use in misters located within 3 feet of air vents, air conditioner units or windows.
- Remove pets, birds and cover fish aquariums before application.

Read all directions completely before use. For best results, follow directions for specific use areas.

**NOTE:**

This concentrated product must be diluted in water. When filling tank, partially fill tank with water and add concentrate. Then fill the rest of the tank with water, agitate well and apply as directed.

- 0.05% Pyrethrins - add 1 part concentrate to 59 parts water or 2 fluid ounces concentrate/gallon water.
- 0.10% Pyrethrins - add 1 part concentrate to 29 parts water or 4.3 fluid ounces concentrate/gallon water.
- 0.30% Pyrethrins - add 1 part concentrate to 9 parts water or 1.3 fluid ounces concentrate/gallon water.
- 0.50% Pyrethrins - add 1 part concentrate to 5 parts water or 22 fluid ounces concentrate/gallon water.

For maximum effectiveness, following the dilution chart and using a combination of spot, surface treatment and fogging are recommended.

**SPACE SPRAYING:** Use with conventional mechanical or compressed air equipment to kill exposed accessible stages of, Flies (including Fruit Flies), Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, Small Flying Moths, Fleas, Gnats, Wasps, Hornets, Clover Mites, Cheese Mites, Cheese Skippers, Boxelder Bugs, Earwigs, Ants, and the following common Stored Product Pests: Granary Weevils, Rice Weevils, Contused Flour Beetles, Saw-toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Angoumois Grain Moths, Mediterranean Flour Moths, Indian Meal Moths, Tobacco Moths, Yellow Mealworms, Dark Mealworms, Grain Mites, Caddies, Red Flour Beetles. Close room and shut off air conditioning or ventilating equipment. Apply at the rate of one to ten (1-10) fluid ounces per 1,000 cubic feet of space and direct spray toward upper corners of room and ceiling, filling the room with mist. Keep the treated area closed off for at least 1/2 hour and thoroughly ventilate before re-entry.

**SURFACE SPRAYING:** To kill Cockroaches, Black Carpenter Ants, Silverfish, Spiders, Crickets, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Saw-toothed Grain Beetles, Spider Beetles, Cigarette Beetles use a sprayer adjusted to a coarse wet spray. Mix well and apply as a coarse wet spray using approximately 1 gallon of spray mixture per 750 Square feet of surface. To provide maximum penetration and impingement on the insects, direct the spray first into all cracks and crevices, behind all equipment, cupboards, obstructions or dark harborage areas, on walls and floors, underneath sinks, behind pipes, beneath stoves and refrigerators, around garbage cans, cabinets, along baseboards, door sills, window sills, door and window frames and floors, around and on drains, pipes, and plumbing, behind bookcases, storage and other utility installation areas and in all places that harbor insects. Contact as many insects as possible. If surface application only is to be used, spray floor and other surfaces. To kill ants, treat doors and around window frames and other areas of entry. Spray on ants whenever possible.

**CLOTHES MOTHS:** Remove any linens articles from storage, brush thoroughly and air for several hours in sunlight, if possible. Apply liberally to empty chests, closets, bureaus and other storage areas, directing the spray into cracks, joints and crevices.

**CARPET BEETLES:** Directly spray as many insects as possible. Where possible, thoroughly spray both top and bottom of rugs and carpets. Also treat shelves, closets, areas under furniture, floors, walls, window sills, baseboards and wherever these insects are seen or suspected.

**BED BUGS:** Spray mattresses lightly, paying special attention to tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings, floors, walls, furniture and other infested areas.

**FOR USE IN CANNERIES:** Before bringing in produce, thoroughly clean floors, conveying equipment and walls, paying special attention to cracks and crevices. Follow dilution chart and spray the entire space inside of the cannery including walls, ceiling and floors, paying special attention to forcing the spray into all cracks and crevices to kill ants, cockroaches, silverfish, crickets, spiders, fruit flies, moths, house flies and cheese mites.

**FOR USE IN FOOD AND NONFOOD AREAS OF FOOD PROCESSING PLANTS, Industrial Installations, Bakeries, Rice and Wheat Mills, Restaurants, Tobacco Warehouses, Grain Elevators and Warehouses.** Spray as directed to kill listed flying and crawling insects. Confine the use of this product in food processing or food handling establishments to time periods when the plant is not in operation.

**DRIED FRUIT PRODUCTS:** In storage or processing. To kill listed insects, remove and destroy infested products. Do not apply directly to fruit. Apply as a fine mist or fog in the air above and around the trays, bins, and shelves at the rate of 1 to 10 fluid ounces per 1,000 cubic feet of space. Repeat application at this dosage as required. Keep the treated area closed off for at least 1 hour and thoroughly ventilate before re-entry. Sweep up and destroy fallen insects.

**TREATMENT OF STORED FOOD AREAS:** Treatment of stored foods in multi-walled bags, cloth bags or other packaging to kill listed insects. Destroy, fumigate, or treat infested stored products using effective methods or an approved product intended for this purpose. As noted above, disperse first by directing spray into cracks and crevices, and around corners, pallets and stacks of packaged goods hitting as many insects as possible. Then apply as a space spray at a dosage of 1 to 10 fluid ounces per 1,000 cubic feet of room space. Repeat application as necessary for insect kill. Keep the treated area closed off for at least 1 hour and thoroughly ventilate before re-entry. Sweep up and destroy fallen insects.

**ON PEANUTS, NUTS, BEANS, SEEDS IN BULK, BAGS OR OTHER PACKAGING:** To kill listed insects. Apply to the surface of stored or bagged products. Also spray walls, floors and other surfaces of bins, storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar hiding places. Then apply as a space spray at the rate of 1-10 ounces per 1,000 cubic feet by directing the spray toward the ceiling and upper corners of the area and behind any obstructions.

**FOR USE IN MEAT AND POULTRY PROCESSING PLANTS:** Apply with a conventional mechanical or compressed air equipment at the rate of 1 to 10 fluid ounces per 1,000 cubic feet of room space. Apply spray into all cracks and crevices in woodwork, walls and floors, underneath sinks, behind pipes and in all places that shelter insects. Contact as many insects as possible. Do not apply more than 1 time per day.

**FOR USE IN TRANSIT PROTECTION:** To kill accessible stages of listed insects, clean and spray truck beds, boxcars, ships holds and other listed transit equipment before loading. Thoroughly treat walls and floors and lightly spray each layer of carton or containers. Apply at the rate of 1 gallon per 750 square feet.

**FOR USE IN LISTED PET (DOMESTIC ANIMAL) AREAS:** For best results, remove, destroy or wash pet's old bedding. To reduce infestation, thoroughly spray pet bedding, sleeping quarters, kennel, around baseboards, window and door frames, into wall cracks, on local areas of floors and other resting places until the surface is slightly moist. Treat these areas at the rate of two seconds per linear foot at the distance of 72 to 18 inches. Also spray the entire inside surface of doghouses. Put fresh bedding in pet's quarters after spray has dried. Keep the treated area closed off for at least 1 hour and thoroughly ventilate before allowing pets (domestic animals) to re-enter.

**FOR KENNELS AND OTHER OUTDOOR ANIMAL AREAS:** Follow dilution chart to kill listed insects. Apply liberally to surfaces, with special attention to cracks and crevices and other insect hiding places. Keep the treated area closed off for at least 1 hour and thoroughly ventilate before allowing pets (domestic animals) to re-enter.

**FOR USE ON LIVESTOCK (NON-DOMESTIC) ANIMALS:** Dilute as follows: 0.10% Pyrethrins - Add 1 part concentrate to 29 parts water or 0.50% Pyrethrins - Add 1 part concentrate to 5 parts water and apply as directed.

To protect beef cattle, dairy cattle, horses and other livestock from attacks and to kill Stable Flies, Horse Flies, Deer Flies, House Flies, Horn Flies, Lesser House Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, and Gnats, spray about 3 seconds on each side of animal, being careful to spray back, withers and forelegs thoroughly.

To protect from Face Flies, spray the face and hair or spray on a cloth and rub on the face, being certain to avoid contact with the eyes. Do not apply more than 1 time per day.

To kill Bling and Sucking Lice on cattle, horses, sheep, goats and hogs, spray to thoroughly wet the hair of the animal, including the head and brush of the tail. Repeat treatment in 10 days to kill newly hatched lice.

To kill Poultry Lice and exposed stages of Darkling Beetles, thoroughly spray roosts, walls, nests and cages. Follow by spraying over the birds with a fine mist. To kill Bed Bugs and Mites on poultry and i. poultry houses, spray crevices of roost poles and cracks in walls and cracks in nests where the Bed Bugs and Mites hide. Follow by spraying over the birds with a fine mist.

To kill Sheep "Tick" or head, thoroughly wet the wool. Treat at a rate to sufficiently wet the animal.

To kill Fleas and Ticks on livestock and to obtain protection against reinfestation, spray to wet animal.

**FOR USE IN ANIMAL QUARTERS, Barns, Dairies, Milking Parlors, Milking Rooms, Poultry Houses:** To kill Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, Gnats and other listed flying insects, dilute with water to give a 0.10% or 0.50% concentration and apply as a fine mist or spray. Direct the spray toward the ceiling and upper corners until the area is filled with mist, using about two (2) ounces per 1,000 cubic feet of space. Do not direct spray towards animals or birds. For best results, close doors and windows before spraying and keep the treated area closed off for at least 15 minutes and thoroughly ventilate before re-entering.

**FOR USE WITH HANDHELD MECHANICAL FOGGERS:** To kill Houseflies, Horn Flies, Stable Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, Gnats and other listed insects. Dilute concentrate and apply as a fine mist or fog. Direct spray toward the ceiling and upper corners of the room until the area is filled with mist, using about 2 fluid ounces per 1,000 cubic feet of space. For best results, close doors and windows before spraying, and keep the treated area closed off for at least 15 minutes and thoroughly ventilate before re-entering.

**DIRECTIONS FOR USE IN INDOOR COMMERCIAL ANIMAL PREMISE AUTOMATIC MISTING SYSTEMS:**

When using this product, installers and service technicians must comply with the license, certification or registration requirements of the state(s), tribe(s) or local authority(ies) where they are installed. When applying via remote activation device, do not apply when people and pets are present. If possible, when applying via automatic timer, set the timing for application when people and pets are unlikely to be present. Direct nozzles to spray towards the target area and away from areas where people are typically present. Do not use in an evaporative cooling system. Do not use in misters located within 3 feet of air vents, air conditioner units or windows. If used in a system with a reservoir tank for the end-use dilution, the system reservoir tank must be locked. Securely attach the end-use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: This container holds \_\_\_\_\_ parts CONCENTRATE 1 to \_\_\_\_\_ parts water. If used in a direct injection system, the pesticide container must be locked. Securely attach the end-use pesticide label of the pesticide container in a weather protected area or plastic sleeve. This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of \_\_\_\_\_ pounds or gallons of end-use product formulation.

**DIRECTIONS FOR USE IN OUTDOOR RESIDENTIAL MISTING SYSTEMS [Unit / Misters]:**

Use to control or temporarily reduce annoyance from accessible stages of: Mosquitoes including the Culex species that may carry and transmit the West Nile Virus, Flies, Gnats, Face Flies, Fannia Flies, Deer Flies, Horse Flies, Stable Flies, Horn Flies, Mosquitoes, Wasps, Yellow Jackets, Fire Bees, Small Flying Moths, Earwigs, Fleas, Ticks, Clover Mites, Brown Dog Ticks, Crickets, Cockroaches, Silverfish, Spiders, Darkling Beetles, and other nuisance insects.

When using this product, installers and service technicians must comply with the license, certification, or registration requirements of the state(s), tribe(s), or other local authority(ies) where they are installed. If the system works on an automatic timer, set the timing for application for when people, pets, and food are unlikely to be present. If the system works when a person operates a remote activation device, then application of this pesticide when people, pets, and food are present is prohibited.

Do not use in an evaporative cooling system.

Direct nozzles to spray towards the target area and away from swimming pools, water bodies, or eating and cooking areas. Do not set nozzles to direct mist near outside air condition systems or other home air intakes.

If used in a system [unit / mister] with a reservoir tank for the end use dilution, the system [unit / mister] reservoir tank must be locked. Securely attach the end use pesticide label and a dilution statement to the system [unit / mister] reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: "This container holds \_\_\_\_\_ parts CONCENTRATE 1 to \_\_\_\_\_ parts water."

If used in a direct injection system, the pesticide container must be locked. Securely attach the end use pesticide label to the pesticide container in a weather protected area or plastic sleeve.

**OUTDOOR RESIDENTIAL MISTING SYSTEM DILUTION TABLE**

A. System Tank size (In gallons)	B. Conversion Factor	
	(Fluid ounces of Concentrate per gallon of water)	A. x B. = fluid ounces of Concentrate for that tank size, to be mixed with water to achieve 0.057% pyrethrin solution.
1 (3.8L)	2.33 (68.90 ml)	2.33 (68.90 ml)
5 (18.9L)	2.33 (68.90 ml)	11.65 (344.63 ml)
10 (37.9L)	2.33 (68.90 ml)	23.3 (689.00 ml)
30 (113.7L)	2.33 (68.90 ml)	70 (2070.15 ml)
55 (208.4L)	2.33 (68.90 ml)	128 (3795.41 ml)

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For high populations of insects or when treating species that are difficult to kill, [prepare a 0.075% Pyrethrin solution by diluting 6.4 fluid ounces of concentrate with water to a volume of 2 gallons (24.97 ml/l)] mix at rates giving higher concentrations (percentage) of pyrethrins up to 0.10% using a conversion factor of 4.08 in table above.

When filling tank, partially fill the system [unit / mister] reservoir tank with water and add concentrate. Then fill the rest of the tank with water and agitate well. Contact the system manufacturer for guidance or assistance to ensure compliance with the following requirement: This product must only be used in systems [unit / misters] that have been calibrated to apply no more than the maximum application rate of 0.0011 lbs. (0.05g) a.i. Pyrethrins per 1000 cubic feet per day (281.32 m<sup>3</sup>), or 1/18th fluid ounce of CONCENTRATE (concentrate or 3 [2-3] fluid ounces of 0.057% [0.075%] solution per 1000 cubic feet per day.

For best performance, the spray solution should be in the pH range of 5.5 to 7.0.

This product will kill listed insects directly contacted by its spray solution. Since many of the targeted insects can migrate in and out of treatment areas, it is recommended that this concentrate be used as part of an Integrated Pest Management (IPM) program. Killing practices include eliminating breeding and harborage sites combined with appropriate use of contact insecticides. Insect Growth Regulators (IGRs) and / or residual insecticides will provide the most effective kill of listed insects.

**OUTDOOR USE DILUTION TABLE: Follow dilution chart and apply as directed.**

Solution percentage	Ratio of concentrate to water	Fluid ounces of concentrate per gallon of water
0.05% Pyrethrins	1 part concentrate to 59 parts water	2 fluid ounces concentrate / gallon water (15.86 ml/L)
0.10% Pyrethrins	1 part concentrate to 29 parts water	4.3 fluid ounces concentrate / gallon water (34.10 ml/L)
0.30% Pyrethrins	1 part concentrate to 9 parts water	13 fluid ounces concentrate / gallon water (103.09 ml/L)
0.50% Pyrethrins	1 part concentrate to 5 parts water	22 fluid ounces concentrate / gallon water (174.46 ml/L)

Take care to avoid spraying when wind conditions might create a mist that can blow back to applicator. Do not apply this product in or around bodies of water. Do not spray directly on plants. Spray surfaces and contact as many insects as possible.

**SMALL FLYING INSECTS AND OTHER FLYING INSECTS** including FLIES, GNATS, MOSQUITOES, SMALL FLYING MOTHS, and MIDGES: Hold sprayer nozzle 18-24 inches from shrubs, bushes, grassy areas, and other areas infested with these pests. Do not apply directly to plants. Spray with a slow sweeping motion while moving away from the treated area. To reduce annoyance from these pests, treat open porches, patios and under decks in a similar manner. Kills flies, Mosquitoes including the Culex species that may carry and transmit the West Nile Virus, Midges, and Gnats when used intermittently during outdoor activities and will keep surrounding areas free from these pests. Allow spray to dissipate before occupying the treated area.

**ANTS:** Spray ant trails, hills, and other areas of entry and infestation. Directly spray ants where possible.

**SPIDERS:** Directly spray spider and webs.

**SOWBUGS, MILLPEDES, BEETLES, EARWIGS, Pillbugs, Centipedes, Scorpions, Cockroaches, Crickets, Waterbugs, and Palmetto Bugs:** Thoroughly spray surfaces and into hiding places such as cracks and crevices, moist areas, openings around pipes and spigots, in storage areas and sheds, and other areas where these pests tend to congregata.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep this product in its tightly closed original container, when not in use. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Non-refillable container. 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 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.