



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 22, 2022

Shoo-fly
c/o Sharon Johnston
Reguide
509 Tower Valley Drive
Hillsboro, MO 63050

Subject: Label Amendment – per Agency-initiated letter revised tables to clarify dilutions and rates and amendment to revise PPE and precautionary statements
Product Name: Concentrate 1 Misting Concentrate
EPA Registration Number: 48665-6
Application Dates: 8/29/2017 & 9/30/2019
Decision Number: 532666 & 556215

Dear Ms. Johnston:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

Page 2 of 2
EPA Reg. No. 48665-6
Decision No. 532666 & 556215

with FIFRA section 6. If you have any questions, please contact Autumn Metzger at 202-566-2830, or Metzger.autumn@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Elizabeth Fertich". The signature is cursive and somewhat stylized.

Elizabeth Fertich
Product Manager 4
Invertebrate-Vertebrate Branch 1
Registration Division
Office of Pesticide Programs

Enclosure

MASTER LABEL

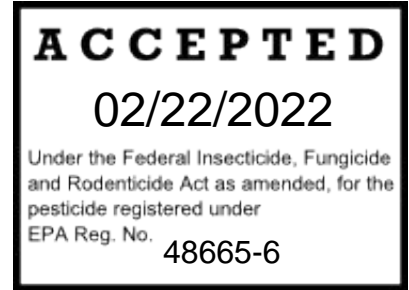
CONCENTRATE 1 MISTING CONCENTRATE

- *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 ixodid species that may carry and transmit Lyme Disease.*
- *CONCENTRATE 1 kills listed insects without objectionable residues.*

ACTIVE INGREDIENTS:

Pyrethrins.....	3.00%
Piperonyl Butoxide*.....	30.00%
OTHER INGREDIENTS:.....	67.00%
	100.00%

* (butylcarbityl)(6-propylpiperonyl) ether and related compounds.



EPA REG. NO. 48665-6

EPA EST. NO.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID	
IF SWALLOWED:	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. 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.
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.	

See Side/Back Panels [Booklet] for Additional Precautions

NET CONTENTS: ___ fl. oz. [or pt. qt., gal.]

Shoo-fly

Manufacturer of the Ideal Insecticides & Automatic Insect Control Systems
10337 North US Highway 27
Ocala, FL 34482
(352) 351-5858 • 1-800-248-5858

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & 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. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

All pesticide handlers, must wear:

Long-sleeved shirt

Long pants

Chemical-resistant gloves made of barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton

Shoes plus socks

In addition to the above PPE, applicators using high pressure hand-wand in an enclosed area must wear at least a half face NIOSH-approved respirator with any R or P filter with a NIOSH approval number prefix TC-84A.

In addition to the above PPE, applicators using hand-held foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

- A NIOSH approved particulate filter with any R or P filter with NIOSH approval number prefix TC-84A, or
- A NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C.

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 this 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.
- 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 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 washwaters or rinsate. See Directions for Use for additional precautions and restrictions.

PHYSICAL AND CHEMICAL HAZARDS

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

FOR USE IN INDOOR AREAS such as:

Animal Areas	Closets	Garbage Cans	Locker Rooms
Animal Control Centers	Clothes Storage	Garbage Compactors	Marinas
Animal Quarters	Club Houses	Gas Stations	Mattresses
Animal Shelters	Commercial Buildings	Gazebos	Mausoleums
Apartments	Condominiums	Goat Holding Areas	Meat Packing Plants
Atriums	Crawl Spaces	Grain Elevators	Mess Halls
Attics	Credenza	Grain Handling Equipment	Milk Houses
Auditoriums	Crematoriums	Grain Harvesting Equipment	Milk Rooms
Automobiles	Dairies	Grain Mills	Milk Sheds
Bakeries	Dairy and Livestock Barns	Grain Storage	Milking Rooms
Bars	Day Care Centers	Granaries	Mini-Storage
Basements	Decks	Grocery Stores	Mobile Canteens
Bathrooms	Delicatessens	Hog Barns	Mobile Homes
Bedding	Dens	Homes	Morgues
Bedrooms	Department Stores	Horse Stables and Barns	Mortuaries
Beef Barns	Diners	Horse Trailers	Motels
Beverage Plants	Dog Houses	Hospices	Movie Theaters
Boats	Dog Sleeping Quarters	Hospitals	Museums
Bookcases	Dormitories	Hotels	Nursing Homes
Bottling Plants	Draperies	Household Contents	Office Buildings
Breweries	Dressers	Houses	Other Public Buildings
Brewery Warehouses	Dried Fruits in Storage	Indoor Eating Buildings	Outdoor Eating Buildings
Buildings Housing Animals	Drive-Ins	Industrial Installations	Pantries
Buildings Housing Poultry	Drugstores	Industrial Plants	Parking Garages
Buses	Dumpsters	Institution Dining Areas	Patios
Cabinets	Dwellings	Institutions	Pet Bedding
Cabins	Egg Processing Plants	Jails	Pet Carriers
Cafeterias	Fabric Storage Areas	Kennels	Pet Grooming Parlors
Calving Barns	Factories	Kitchens	Pet Sleeping Areas
Camp Sites	Farm Structures	Laboratories	Pet Stores
Campers	False Ceilings	Lanais	Planes (cargo area only)
Canneries	Floors	Laundromats	Play Houses
Carpets	Food Processing Plants	Lavatories	Play Rooms
Cat Sleeping Quarters	Food Storage Areas	Libraries	Pool Hals
Cattle Barns	Freight Containers	Liquor Stores	Porches
Chests	Fruit Packing Sheds	Livestock Barns	Poultry Houses
Churches	Funeral Parlors	Livestock Hauling Equipment	Poultry Plants
Circus Tents	Furniture	Livestock Holding Areas	Pounds
City Missions	Garages	Living Rooms	Prisons
Closed Porches	Garbage Bins	Loafing Sheds	Public Storage

Quonset Huts	Ship Holds	Tents	Utilities
Rabbit Processing Plants	Smoke Shops	Textile Mills	Utility Rooms
Railroad Cars	Solariums	Theaters	Vending Machines
Recreational Vehicles	Sport Stadiums	Tobacco Factories	Verandas
Research Animal Quarters	Stable Bins	Tobacco Warehouses	Veterinary Clinics
Restaurants	Stables	Tool Sheds	Voids in Attics
Retail Stores	Storage Areas	Trailers	Warehouses
Rice Mills	Stored Food (bags)	Trains	Washrooms
Rooms	Stored Products	Transportation Vehicles	Wheat Mills
Rugs	Stores	Tree Houses	Wholesale Stores
Schools	Sun Porches	Tree Nuts Storage Areas	Wine Cellars
Seed Storage	Sun Rooms	Truck Trailers	Wineries
Sheep Holding Areas	Swine Houses	Trucks	Zoos
Ships	Taverns	Tunnels	

FOR USE IN OUTDOOR AREAS such as:

Alleys	Courtyards	Levees	Sanitary Sewers
Amphitheaters	Curbs	Manholes	Sidewalks
Amusement Parks	Drive-In Restaurants	Manure Piles	Side Yards
Ant Hills	Drive-In Theaters	Marinas	Stadiums
Back Yards	Dumpsters	Outdoor Eating Establishments	Tennis Courts
Balconies	Fair Grounds	Parking Lots	Truck Stops
Baseball Fields	Feedlots	Parks	Underpasses
Beaches	Front Yards	Patios	Utility Room Outdoor
Bridges	Game Fields	Playgrounds	Weigh Stations
Campgrounds	Garbage Dumps	Ranges	Wild Animal Parks
Carwashes	Gazebos	Recreational Areas	Wood Piles
Circuses	Grandstands	Rest Areas	Zoos
Constructions Sites	Junk Yards	Roadsides	
Corrals	Kennels	Rooftops	

FOR USE ON:

Beefalo	Donkeys	Llamas	Quail
Birds	Ducks	Mules	Ratites
Buffalo	Exotics such as European Red Deer	Ostrich	Roosters
Calves	Emus	Oxen	Sheep
Cattle – Beef	Geese	Pheasants	Swine
Cattle – Dairy	Horses	Pigs	Turkeys
Chickens	Lambs	Pullets	

DIRECTIONS FOR USE

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

RESTRICTIONS

- Apply this product only as specified on this label.

ENTRY RESTRICTIONS:

- For surface or direct spray use: Except when applying to livestock, do not enter or allow others to enter treated area until sprays have dried.
- For space spray use: Do not enter or allow others to enter until vapors, mists and aerosols have dispersed and the treated area has been thoroughly ventilated.
- 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.

APPLICATION RESTRICTIONS:

- Except when applying to livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Except when applying to livestock, only protected handlers may be in the area during application.
- Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed.
- Do not make outdoor applications during rain. Do not water the treated area to the point of runoff.
- Except when applying to sewers or drains as instructed on this label, do not apply directly to sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur.
- Except for use in outdoor fogging devices (residential misting systems), all outdoor applications must be limited to spot or crack and crevice treatments only, except for the following 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.
- Do not wet articles to the point of runoff or drip. Do not use treated articles until spray has dried.
- 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.
- When used in dairy barns or facilities: Close milk bulk lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- Do not contaminate food or feedstuffs.
- Do not use in aircraft cabins.
- 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 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.

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.

0.012% Pyrethrins – add 0.5 fl. oz. of concentrate/gallon of water (3.9 ml/L)
0.020% Pyrethrins – add 1.0 fl. oz. of concentrate/gallon of water (7.8 ml/L)
0.04% Pyrethrins – add 1.6 fl. oz. of concentrate/gallon of water (23 ml/L)
0.05% Pyrethrins -add 2 fl. oz. of concentrate/gallon water (15.86 ml/L)
0.10% Pyrethrins -add 4.3 fl. oz. of concentrate/gallon water (34.10 ml/L)
0.30% Pyrethrins -add 13 fl. oz. of concentrate/gallon water (103.09 ml/L)
0.40% Pyrethrins – add 17 fl. oz. of concentrate/gallon of water (128.75 ml/L)
0.50% Pyrethrins -add 22 fl. oz. of concentrate/gallon water (174.46 ml/L)
0.65% Pyrethrins – add 28 fl. oz. of concentrate/gallon of water (218.75 ml/L)

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

SPACE SPRAYING IN FOOD HANDLING ESTABLISHMENTS AND COMMERCIAL ESTABLISHMENTS: 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, Confused 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, Cadelles, Red Flour Beetles. Close room and shut off air conditioning or ventilating equipment. Apply at the rate of 1 to 1.6 fl. oz. of concentrate 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. Do not exceed the maximum application rate of 0.0033 lb. pyrethrins per 1,000 cu. ft. or 1.6 fl. oz. of concentrate per 1,000 cu. ft. of space.

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 1,000 sq. ft. 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. Apply at the rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 0.056 lb. pyrethrins per 1,000 sq. ft. or 28 fl. oz. of concentrate per 1,000 sq. ft.

CLOTHES MOTHS: Remove any infested 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. Apply at the rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 0.056 lb. pyrethrins per 1,000 sq. ft. or 28 fl. oz. of concentrate per 1,000 sq. ft.

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, windowsills, baseboards and wherever these insects are seen or suspected. Apply at the rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 0.056 lb. pyrethrins per 1,000 sq. ft. or 28 fl. oz. of concentrate per 1,000 sq. ft.

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. Apply at the rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 0.056 lb. pyrethrins per 1,000 sq. ft. or 28 fl. oz. of concentrate per 1,000 sq. ft.

FOR USE IN CANNERIES: Before bringing in produce, thoroughly clean floors, conveying equipment and walls, paying special attention to cracks and crevices. Apply at a rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. 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. Do not exceed the maximum application rate of 28 fl. oz. of concentrate per 1,000 sq. ft.

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. Cover or remove food during treatment. When applying as a space spray, apply at the rate of 1 to 1.6 fl. oz. of concentrate per 1,000 cu. ft., not to exceed 0.0033 lb. pyrethrins or 1.6 fl. oz. of concentrate per 1,000 cu. ft. of space. When applying as a surface spray, apply at the rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 28 fl. oz. of concentrate per 1,000 sq. ft.

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 0.5 fl. oz. concentrate 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. Do not exceed the maximum application rate of 0.001 lb. pyrethrins per 1,000 sq. ft. or 0.5 fl. oz. of concentrate per 1,000 cu. ft. of space.

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 1.6 fl. oz. of concentrate 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 as a surface spray to the surface of stored or bagged products at a rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 0.056 lb. pyrethrins or 28 fl. oz. of concentrate per 1,000 sq. ft. 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 – 1.6 fl. oz. of concentrate per 1,000 cubic feet by directing the spray toward the ceiling and upper corners of the area and behind any obstructions. For the space spray, do not exceed the maximum application rate of 0.0033 lb. pyrethrins or 1.6 fl. oz. of concentrate per 1,000 cu. ft. of space.

FOR USE IN MEAT AND POULTRY PROCESSING PLANTS: Apply with a conventional mechanical or compressed air equipment at the rate of 1 to 1.6 fl. oz. of concentrate 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. Before use, cover or remove exposed food products and packaging materials. After use, wash equipment and utensils with an effective cleaning compound and rinse with potable water. Use as a space spray only when plant is not in operation. Do not exceed the maximum application rate of 0.0033 lb. pyrethrins or 1.6 fl. oz. of concentrate per 1,000 cu. ft. of space.

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 a rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 0.056 lb. pyrethrins or 28 fl. oz. of concentrate per 1,000 sq. ft.

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 12 to 18 inches. Also spray the entire inside surface of doghouses. Put fresh bedding in pet's quarters after spray has dried. Allow treated areas to dry thoroughly before allowing pets to re-enter. Apply at a rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 0.056 lb. pyrethrins/1,000 sq. ft. or 0.56 lb. PBO per 1,000 sq. ft or 28 fl. oz. of concentrate per 1,000 sq. ft.

FOR KENNELS AND OTHER COMMERCIAL OUTDOOR ANIMAL AREAS: To control listed pests, apply at a rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. Do not exceed the maximum application rate of 0.056 lb. pyrethrins/1,000 sq. ft. or 0.56 lb. PBO per 1,000 sq. ft. or 28 fl. oz. of concentrate per 1,000 sq. ft. Apply liberally to surfaces, [paying] [with] special attention to cracks and crevices and other insect hiding places. Allow treated areas to dry thoroughly before allowing pets [animals] to re-enter.

FOR USE ON LIVESTOCK (NON-DOMESTIC) ANIMALS: Create a solution containing 0.40% pyrethrins by adding 17 fl. oz. of concentrate/gallon of water. Do not apply to livestock animals more than once per day.

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 3 seconds on each side of animal, being careful to spray the 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. Repeat treatment as necessary when flies are troublesome.

To kill Biting 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. Apply at a rate of 28 fl. oz. of concentrate/gallon of water per 1,000 sq. ft. of area. Do not exceed the maximum application rate of 0.056 lb. pyrethrins or 28 fl. oz. of concentrate per 1,000 sq. ft. Follow by spraying over the birds with a fine mist at a rate of 0.4 fl. oz. of concentrate/gallon of water per 1,000 cu. ft. Do not exceed 0.0008 lb. pyrethrins or 0.4 fl. oz. of concentrate per 1,000 cu. ft. of space.

To kill Bed Bugs and Mites on poultry and in poultry houses, spray crevices of roost poles and cracks in walls and cracks in nests where Bed Bugs and Mites hide. Apply at a rate of 28 fl. oz. of concentrate/gallon per 1,000 sq. ft. of area. Do not exceed the maximum application rate of 0.056 lb. pyrethrins or 28 fl. oz. of concentrate per 1,000 sq. ft. Follow by spraying over the birds with a fine mist applied at a rate of 0.4 fl. oz. of concentrate/gallon of water per 1,000 ct. ft. Do not exceed 0.0008 lb. pyrethrins or 0.4 fl. oz. of concentrate per 1,000 ct. ft. of space.

To kill Sheep "Tick" or Ked, create a solution containing 0.40% pyrethrins by adding 17 fl. oz. of concentrate/gallon of water and spray with enough solution to sufficiently wet the animal.

To kill Fleas and Ticks on livestock and to obtain protection against re-infestation, 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 1.6 fl. oz. of concentrate 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 10 to 15 minutes following application. Applicator should vacate the treated area and thoroughly ventilate before re-entering. Do not use in milk rooms where raw milk may be exposed.

FOR USE WITH HANDHELD MECHANICAL FOGGERS to kill Houseflies, Horn Flies, Stable Flies, Horse 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 1.6 fl. oz per 1,000 cubic feet of space. For best results, close doors and windows before spraying, and keep the treated area closed off for 10 to 15 minutes after spraying. Applicator should vacate the treated area and thoroughly ventilate before re-entering.

DIRECTIONS FOR USE IN AUTOMATIC ULV SPRAYING SYSTEMS, IN AREAS SUCH AS ANIMAL QUARTERS, DAIRY AND BEEF BARN, POULTRY HOUSES, SWINE HOUSING, WAREHOUSES, ZOOS AND OTHER LISTED LIVESTOCK OR ANIMAL HOUSING AREAS:

USE RESTRICTIONS FOR AUTOMATIC ULV SPRAYING SYSTEMS AND RESIDENTIAL MISTING SYSTEMS:

Do not apply this pesticide when people, pets and food are present.

- Do not use in an evaporative cooling system.
- Do not set nozzles to direct mist near outside air conditioner systems or other home air intakes.
- Direct nozzles to spray towards the target area and away from swimming pools, water bodies or eating and cooking areas.
- When using this product, installers and service technicians must comply with the license, certification, or registration requirements of the states(s), tribes(s), or local authority(ies) where they are installed.
- 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.
- If system works on an automatic timer, set the timing for application when people, pets and food are unlikely to be present.
- 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 attached 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 [product name] to ___ parts water.

- If used in a direct injection system, the pesticide container must be locked. Securely attach the end-use label to the pesticide container in a weather protected area or a plastic sleeve.
- Automatic spraying systems must not be programmed to release pesticides where food or feed is directly exposed.

To kill Flies, House Flies, Horn Flies, Stable Flies, Horse Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile virus, Gnats and other listed insects: Add concentrate to tank and add water to obtain desired dilution. Agitate well while adding water. Dispense diluted concentrate through automatic spraying system. Set nozzles to deliver 1 fl. oz. per minute. Position nozzles to cover a maximum of 2,000 cu. ft. of space per nozzle. Set timer to operate in accordance with equipment directions. Equipment must be calibrated to deliver no more than the maximum application rate of 0.0033 lb. pyrethrins per 1,000 cu. ft. and 0.033 lbs. of PBO per 1,000 cu. ft., or no more than 1.6 fl. oz. of concentrate per 1,000 cu. ft. of space per day.

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

NOT REGISTERED for use in Automatic ULV Spraying Systems in the State of New York.

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, Hornets, Wasps, Yellow Jackets, Fire Brats, Small Flying Moths, Earwigs, Fleas, Ticks, Clover Mites, Brown Dog Ticks, Crickets, Cockroaches, Silverfish, Spiders, Darkling Beetles, and other nuisance insects.

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 0.044% pyrethrin solution.
1 (3.8L)	1.88 (55.59 ml)	1.88 (55.59 ml)
5 (18.9L)	1.88 (55.59 ml)	9.40 (278 ml)
10 (37.9)	1.88 (55.59 ml)	18.80 (556 ml)
30 (113.7L)	1.88 (55.59 ml)	56.40 (1668 ml)
55 (208.4L)	1.88 (55.59 ml)	103.40 (3058 ml)
125	1.88 (55.59 ml)	235 (6949 ml)
250	1.88 (55.59 ml)	470 (13,989 ml)

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 0.00011 lb. (0.05g) a.i. pyrethrins per 1000 cu. ft. per day or 0.00058 lb. PBO per 1,000 cu. ft. per day, whichever is lower (do not exceed 2 fl. oz. of diluted product per 1,000 cu. ft. 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
0.02% Pyrethrins	1 part concentrate to 128 parts water	1 fl. oz. concentrate / gallon water (7.8 ml/L) Apply at the rate of 1 gallon / 1,000 sq. ft.

Do not spray 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:

Apply at a rate of 1.0 fl. oz. of concentrate/gallon of water per 1,00 sq. ft. of area. 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. Do not exceed 0.002 lb. pyrethrins or 1 fl. oz. of concentrate per 1,000 sq. ft. of 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, MILLIPEDES, 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 congregate.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or 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. Triples 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store 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.