



- Contains the botanical insecticide Pyrethrum, an extract of a Chrysanthemum flower
- A micro-emulsion, water-based spray
- Kills Mosquitoes, including the Culex species that may carry and transmit the West Nile virus
- Kills Mosquitoes, including the Aedes mosquito that may carry and transmit Zika virus
- Kills and repels Stable Flies, Horse Flies, Face Flies, Deer Flies, House Flies, Mosquitoes and Gnats
- Controls Deer Ticks and other Ixodid species that may carry and transmit Lyme disease
- Provides rapid kill of Mosquitoes and other listed insects without objectionable residues
- For use on beef cattle, dairy cattle, horses, hogs, poultry and other listed livestock



KEEP OUT OF REACH OF CHILDREN  
**CAUTION**  
 See inside for first aid and precautionary statements.

<b>ACTIVE INGREDIENTS:</b>	
Pyrethrins.....	3.00%
*Piperonyl butoxide.....	30.00%
OTHER INGREDIENTS .....	67.00%
	100.00%
*(butylcarbityl) (6-propylpiperonyl) ether and related compounds	

**DIRECTIONS FOR USE**

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

**READ ALL DIRECTIONS COMPLETELY BEFORE USE**

For best results, follow directions for specific use areas.

**PRECAUTIONS AND RESTRICTIONS:**

**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.

**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 make applications during rain.
- 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 wet articles to 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.
- Do not water the treated area to the point of runoff.
- 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 make space spray applications when facility is in operation. Prior to space spray applications, cover or remove food. Prior to space spray applications, cover food processing surfaces or clean after treatment and before use.

- Do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- 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 sewers, storm drains, water bodies, or aquatic habitat can occur.
- Except for use with outdoor fogging devices, all outdoor applications must be limited to spot or crack and crevice treatments only, except for the following permitted uses:
  - Treatment to soil or vegetation around structures;
  - Applications to lawns, turf, and other vegetation;
  - 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 use in aircraft cabins.

**GENERAL:**

This concentrated product must be diluted with water. When making dilutions, add concentrate to the tank and add water. Agitate well while adding water and apply as directed:

- 0.04% Pyrethrins – add 1.6 fl. oz. of concentrate / gallon of water
- 0.05% Pyrethrins – add 2 fl. oz. concentrate / gallon water
- 0.10% Pyrethrins – add 4.3 fl. oz. concentrate / gallon water
- 0.30% Pyrethrins – add 13 fl. oz. concentrate / gallon water
- 0.50% Pyrethrins – add 22 fl. oz. concentrate / gallon water

Confine use of this product in food processing establishments to time periods when the plant is not in operation. Remove or cover food during treatment. Cover all food processing surfaces during treatment or thoroughly clean before use following treatment.

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

For the control of insects including:							
Almond Moths	Cadelles	Confused Flour Beetles	Face Flies	Horn Flies	Merchant Grain Beetles	Red Flour Beetles	Spiders
Angoumois Grain Moths	Carpet Beetles	Crickets	Fannia Flies	Hornets	Midges	Rice Flour Beetles	Stable Flies
Ants	Cat Fleas	Dark Mealworms	Firebrats	Horse Flies	Miller Moths	Rice Weevils	Ticks that may carry and transmit Lyme disease
Bed Bugs	Cellar Spiders	Darkling Beetles	Flat Grain Beetles	House Flies	Millipedes	Rusty Grain Beetles	Tobacco Moths
Black Carpenter Ants	Cereal Beetles	Deer Flies	Fleas	Indian Meal Moths	Mosquitoes including the Culex species that may carry and transmit the West Nile virus	Sawtoothed Grain Beetles	Trogoderma Beetles
Black Flies	Cheese Mites	Deer Ticks	Flies	Khapra Beetles	Silverfish	Sheep Ticks	Warehouse Beetles
Black Widow Spiders	Cheese Skippers	Dermestid Beetles	Fruit Flies	Lesser Grain Beetles	Skipper Flies	Small Flying Moths	Wasps
Blood Sucking Lice	Chocolate Moths	Dog Fleas	Fungus Gnats	Lesser Grain Borers	Palmetto Bugs	Sowbugs	Waterbugs
Boxelder Bugs	Cigarette Beetles	Driedfruit Beetles	Gnats	Lesser House Flies	Pillbugs	Spider Beetles	Yellow Mealworms
Brown Dog Ticks	Clothes Moths	Drugstore Beetles	Grain Mites	Lice	Poultry Lice		Yellowjackets
	Clover Mites	Earwigs	Granary Weevils	Mediterranean Flour Moths			
	Cockroaches		Hide Beetles				

INDOOR AREAS for use in:	Cabinets	Dens	Garbage Compactors	Jails	Mortuaries	Railroad Cars	Theaters
Animal Areas	Cabins	Department Stores	Gas Stations	Kennels	Motels	Recreational Vehicles	Tobacco Factories
Animal Control Centers	Cafeterias	Diners	Gazebos	Kitchens	Movie Theaters	Research Animal Quarters	Tobacco Warehouses
Animal Quarters	Calving Barns	Dog Houses	Goat Holding Areas	Laboratories	Museums	Restaurants	Tool Sheds
Animal Shelters	Camp Sites	Dog Sleeping Quarters	Grain Elevators	Lanais	Nursing Homes	Retail Stores	Trailers
Apartments	Campers	Quarters	Grain Handling Equipment	Laundromats	Office Buildings	Rice Mills	Trains
Atriums	Canneries	Dormitories	Grain Harvesting Equipment	Lavatories	Other Public Buildings	Rooms	Transportation Vehicles
Attics	Carpets	Draperies	Grain Mills	Libraries	Outdoor Eating Buildings	Rugs	Tree Houses
Auditoriums	Cat Sleeping Quarters	Dressers	Grain Storage	Liquor Stores	Pantries	Schools	Tree Nuts Storage Areas
Automobiles	Cattle Barns	Dried Fruits in Storage	Granaries	Livestock Barns	Parking Garages	Seed Storage	Truck Trailers
Bakeries	Chests	Drive-Ins	Grocery Stores	Livestock Hauling Equipment	Patios	Ships	Trucks
Bars	Churches	Drugstores	Hog Barns	Livestock Holding Areas	Pet Bedding	Ships	Tunnels
Basements	Circus Tents	Dwellings	Homes	Living Rooms	Pet Carriers	Ships	Utilities
Bathrooms	City Missions	Egg Processing Plants	Horse Stables and Barns	Loafing Sheds	Pet Grooming Parlors	Smoke Shops	Utility Rooms
Bedding	Closed Porches	Fabric Storage Areas	Horse Trailers	Locker Rooms	Pet Sleeping Areas	Solariums	Vending Machines
Bedrooms	Closets	Factories	Hospices	Marinas	Pet Stores	Sport Stadiums	Verandas
Beef Barns	Clothes Storage	False Ceilings	Hospitals	Mattresses	Planes	Stable Bins	Veterinary Clinics
Beverage Plants	Club Houses	Farm Structures	Hotels	Mausoleums	Play Houses	Stables	Voids in Attics
Boats	Commercial Buildings	Floors	Household Contents	Meat Packing Plants	Play Rooms	Storage Areas	Warehouses
Bookcases	Condominiums	Food Processing Plants	Houses	Mess Halls	Pool Halls	Stored Food (bags)	Washrooms
Bottling Plants	Crawl Spaces	Food Storage Areas	Indoor Eating Buildings	Milk Houses	Porches	Stores	Wheat Mills
Breweries	Credenzas	Freight Containers	Industrial Installations	Milk Rooms	Poultry Houses	Sun Porches	Wholesale Stores
Brewery Warehouses	Crematoriums	Fruit Packing Sheds	Industrial Plants	Milk Sheds	Poultry Plants	Sun Rooms	Wine Cellars
Buildings Housing Animals	Dairies	Funeral Parlors	Institution Dining Areas	Milking Rooms	Pounds	Swine Houses	Wineries
Buildings Housing Poultry	Dairy and Livestock Barns	Furniture	Institutions	Mini Storage	Prisons	Taverns	Zoos
Buses	Day Care Centers	Garages		Mobile Canteens	Public Storage	Tents	
	Decks	Garbage Bins		Mobile Homes	Quonset Huts	Textile Mills	
	Delicatessens	Garbage Cans		Morgues	Rabbit Processing Plants		

OUTDOOR AREAS for use in and around:	Campgrounds	Feedlots	Establishments	Side Yards
Alleys	Carwashes	Front Yards	Parking Lots	Stadiums
Amphitheaters	Circuses	Game Fields	Parks	Tennis Courts
Amusement Parks	Construction Sites	Garbage Dumps	Patios	Truck Stops
Ant Hills	Courtyards	Gazebos	Playgrounds	Underpasses
Back Yards	Corrals	Grandstands	Ranges	Utility Rooms
Balconies	Courtyards	Recreational Areas	Rest Areas	Wild Animal Parks
Baseball Fields	Curbs	Junkyards	Roadsides	Wood Piles
Beaches	Drive-In Restaurants	Kennels	Rest Areas	Zoos
Bridges	Leaves	Leaves	Roadsides	
	Manholes	Rooftops	Sanitary Sewers	
	Manure Piles	Sanitary Sewers		
	Marinas	Sidewalks		
	Fair Grounds	Outdoor Eating		

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

Vampyre® Misting Concentrate contains the quick-killing botanical insecticide, Pyrethrum, an extract of Chrysanthemum flowers, which provides rapid effective control of insects upon direct contact with an added benefit of flushing and repelling these insects to aid in a more complete control. This highly effective water-based formula can be used on flying and crawling insects indoors and outdoors.

Vampyre® Misting Concentrate can be used to control fleas and ticks hidden in carpets, rugs, upholstery, draperies, floor cracks and cabinets. Also controls Deer Ticks and other loidid species that may carry and transmit Lyme disease.

Vampyre® Misting Concentrate can be used in the home, schools, hospitals, restaurants and other listed areas to control, on contact, listed crawling pests and is a fast, effective product for flying insect control. Pyrethrum has quick-killing ability with no persistent residue.

Vampyre® Misting Concentrate can be used to reduce annoyance of mosquitoes, including the Culex species that may carry and transmit the West Nile virus, outdoors around homes, in recreational areas, and other listed areas. Ideal for use before outdoor activities.

Vampyre® Misting Concentrate can be used in food and non-food areas of food processing plants, canneries, industrial installations, bakeries, rice and wheat mills, tobacco warehouses, grain elevators, warehouses, storage sites and other listed areas to control, on contact, listed crawling pests and is a fast, effective product for flying insect control.

Vampyre® Misting Concentrate provides rapid kill of insects without objectionable residues.

To protect your pet against and to minimize reintroduction of adult fleas from outdoors, use EPA registered flea and tick products (such as flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo), in conjunction with this application and prior to re-entry.

Remove pets and birds and cover fish aquariums before spraying.

#### **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, Sawtoothed 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, and other listed insects. 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 cu. ft. of space and direct spray toward upper corners of room and ceiling, filling the room with mist. Leave room closed for 1/2 hour and ventilate thoroughly before re-entry.

**SURFACE SPRAYING:** To kill Cockroaches, Black Carpenter Ants, Silverfish, Spiders, Crickets, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Sawtoothed Grain Beetles, Spider Beetles, Cigarette Beetles and other listed insects, 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 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 and 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. Do not allow spray to contact stored food. 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. Do not exceed the maximum application rate of 0.056 lbs. 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.

**CARPET BEETLES:** Directly spray as many insects as possible. Spray all surfaces of upholstered furniture. Where possible, thoroughly spray both top and bottom of rugs and carpets. Also treat shelves, closets, floors, walls, windowsills, baseboards, areas under furniture, 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 LISTED PET 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 animal 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. Do not exceed the maximum application rate of 0.56 lbs. PBO per 1,000 sq. ft. or 28 fl. oz. of concentrate per 1,000 sq. ft.

**FLEA AND TICK INFESTATION ON RUGS AND CARPETS:** Before use, vacuum all infested areas thoroughly and dispose of vacuum bag in outside trash. Spray rugs and carpets where fleas tend to hide and usually where animals frequent. Spray thoroughly into hiding places such as cracks and crevices, in walls, on floors, and along baseboards, window and door frames. Spray at the rate of one sq. ft. per second. To kill ticks and other labeled insects, apply directly to bugs. Do not apply to pets. Treat pets with an EPA registered product in conjunction with this application.

For best results, to protect your pet against and to minimize reintroduction of adult fleas from outdoors, use EPA registered flea and tick products, (flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo), in conjunction with this application.

**FOR KENNELS AND OTHER OUTDOOR ANIMAL AREAS:** Follow dilution chart to control listed insects. Apply liberally to surfaces, paying special attention to cracks and crevices and other insect hiding places. Allow treated areas to dry thoroughly before allowing pets to re-enter.

**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 area inside the cannery, including walls, ceilings, and floors, paying special attention to forcing the spray into all cracks and crevices for control of Ants, Cockroaches, Silverfish, Crickets, Spiders, Fruit Flies, Moths, House Flies, Cheese Mites, and other listed insects. Do not exceed maximum application rate of 28 fl. oz. of concentrate per 1,000 sq. ft.

**FOR USE IN FOOD AND NON-FOOD AREAS OF FOOD PROCESSING PLANTS,** industrial installations, bakeries, rice and wheat mills, restaurants, tobacco warehouses, grain elevators and warehouses: Spray as directed to control 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. When applying as a surface spray, 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:** For control of 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 trays, bins, and shelves at the rate of 0.5 fl. oz. of concentrate per 1,000 cu. ft. of space. Repeat application at this dosage as required. Leave the room closed for one hour. Do not remain in treated areas and ventilate the area before re-entry. Sweep up and destroy fallen insects.

**TREATMENT OF STORED FOOD AREAS:** Foods in multi-walled bags, cloth bags or other packaging stored in such areas as listed areas for the control of listed pests. 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 cu. ft. of room space. Repeat application as necessary for insect control. Do not remain in treated area and ventilate before re-entry. Sweep up and destroy fallen insects.

**ON PEANUTS, NUTS, BEANS, SEEDS IN BULK, BAGS OR OTHER PACKAGING:** For the control of listed insects. Apply to the surface of stored or bagged products. Also spray walls, floors, and surfaces of bins and 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 to 1.6 fl. oz. of concentrate per 1,000 cu. ft. by directing the spray toward the ceiling and upper corners of the area and behind any obstructions.

**FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS:** Apply with conventional mechanical or compressed air equipment at the rate of 1 to 1.6 fl. oz. of concentrate per 1,000 cu. ft. 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. Repeat as necessary. 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.

**FOR IN TRANSIT PROTECTION:** To control accessible stages of listed insects, clean and spray truck beds, boxcars, ship's holds and other listed transit equipment before loading. Thoroughly treat walls and floors, and lightly spray each layer of stacked cartons or containers. Apply dilution at the rate of 1 gallon per 750 sq. ft. Do not exceed maximum application rate of 28 fl. oz. of concentrate per 1,000 sq. ft.

## FOR USE IN STORAGE FACILITIES AND EQUIPMENT:

**SANITATION MEASURES:** This product can be used as a surface spray in warehouse bins, trucks, cargo ships, mills, bin hoppers, elevators, and conveying equipment as a cleanup prior to use. In mills and elevators, remove all infested accumulations of grain from the bin hoppers. All storage and conveying equipment should be thoroughly cleaned by sweeping out waste grain, cobwebs, and other debris from the walls, rafters, floors, and door frames, paying special attention to material lodged in cracks and crevices. Remove all debris and dispose of in outside trash. Do not exceed maximum application rate of 28 fl. oz. of concentrate per 1,000 sq. ft.

**FOR FARMS,** pay particular attention to cleaning up around used feed and grain bags and cleaning grain residues from wagons, harvesting equipment, and feed troughs. Do not place newly harvested grain in the same bin with carry-over grain. Fumigate or treat all carry-over grain stocks not previously treated with grain protectant with EPA approved products. Perform these cleaning operations two or three weeks before harvest.

After above sanitation measures are employed, spray as directed.

**FOR USE IN ANIMAL QUARTERS,** Barns, Dairies, Milking Parlors, Milking Rooms, Poultry Houses, and other listed animal areas. For rapid control (kill) of 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 spray towards ceiling and upper corners of area until filled with mist, using 1.6 fl. oz. of concentrate per 1,000 cu. ft. of space. Do not direct spray towards animals or birds. For best results, close doors and windows before spraying and keep them closed for 10 to 15 minutes following application. Applicator should vacate the treated area and ventilate it before reoccupying. Do not use in milk rooms where raw milk may be exposed.

**FOR USE ON LIVESTOCK:** Dilute as follows: 0.10% Pyrethrins – Add 4.3 fl. oz. per gallon of water or 0.50% Pyrethrins – Add 22 fl. oz. per gallon of water and apply as directed:

- To protect beef cattle, dairy cattle, horses, and other livestock from attacks and to kill and repel 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 certain 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 eyes. Repeat treatment as necessary when flies are troublesome.
- For effective control of 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 control 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.
- For control of Bed Bugs and Mites on poultry and in poultry houses, spray crevices of roost poles and cracks in walls and nests where Bed Bugs and Mites hide. Follow by spraying over the birds with a fine mist.
- To control sheep "tick" or ked, thoroughly wet all portions of the body by spraying directly into the wool. Treat at a rate sufficient to wet the animal.
- To kill Fleas and Ticks on livestock and to obtain protection against reinfestation, spray to sufficiently wet animal.

**FOR USE IN BARNs, DAIRIES, MILKING PARLORS, MILKING ROOMS, POULTRY HOUSES,** and other listed animal housing areas, follow dilution chart and apply as directed. Do not use in milk rooms where raw milk may be exposed.  
0.10% Pyrethrins – Add 4.3 fl. oz. per gallon of water  
0.50% Pyrethrins – Add 22 fl. oz. per gallon of water

**DIRECTIONS FOR USE WITH HANDHELD MECHANICAL FOGGERS** to control 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. 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 cu. ft. of space. For best results, close doors and windows before spraying and keep them closed for 10 to 15 minutes after spraying. Applicator should vacate the treated area and ventilate it before reoccupying.

## DIRECTIONS FOR USE IN AUTOMATIC ULV SPRAYING SYSTEMS, IN AREAS SUCH AS ANIMAL QUARTERS, DAIRY AND BEEF BARNs, 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 state(s), tribe(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 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 VamPyr® 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 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 fluid ounce 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 lbs. 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: NOTE: 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, Yellowjackets, Firebrats, Small Flying Moths, Earwigs, Fleas, Ticks, Clover Mites, Brown Dog Ticks, Crickets, Cockroaches, Silverfish, Spiders, Darkling Beetles, and other nuisance insects.

### Automatic spraying system dilution table

A System tank size (in gallons)	B Conversion factor (fluid ounce 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
30	1.88	56.40
55	1.88	103.40
125	1.88	235
250	1.88	470

When filling tank, partially fill the system 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 that have been calibrated to apply no more than the maximum application rate of .00011 lbs. pyrethrins per 1,000 cu. ft. per day or 0.00058 lbs. piperonyl butoxide 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 control 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. Control practices including 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 control of target insects.

#### Outdoor use dilution table:

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 of water
0.10% Pyrethrins	1 part concentrate to 29 parts water	4.3 fluid ounces concentrate/gallon of water
0.30% Pyrethrins	1 part concentrate to 9 parts water	13 fluid ounces concentrate/gallon of water
0.50% Pyrethrins	1 part concentrate to 5 parts water	22 fluid ounces concentrate/gallon of water

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 to 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 and repels 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 Spiders and webs.

**SOWBUGS, MILLIPEDES, BEETLES, EARWIGS, PILLBUGS, CENTIPEDES,**

#### **SCORPIONS, COCKROACHES, CRICKETS, WATERBUGS, 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 and disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place. Always store pesticides in the original container. Store away from food and pet food.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER HANDLING AND DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill.

[For totes/55 gal containers]

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Triple rinse as follows [for containers of 5 gallons or less]: 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 rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse as follows [for containers greater than 5 gallons]: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

[Or for Refillable Containers]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing 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.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

# CAUTION

Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin 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)

Mixers, loaders, applicators, and other 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, and
- Shoes and socks.

In addition to the above PPE, applicators using a 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 handheld 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
- A NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C.

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 materials that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

#### ENVIRONMENTAL HAZARDS

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

#### PHYSICAL OR CHEMICAL HAZARDS

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

## FIRST AID

#### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

#### IF 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 information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.

#### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should 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.



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