

RIPTIDE®

Waterbased Pyrethrin ULV

Specimen Label

- Kills Mosquitoes (including those that may transmit the West Nile Virus)
- Kills Flying Insects
- Kills Crawling Insects
- Kills Stored Product Pests
- Kills Cockroaches



KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside for first aid and precautionary statements.

ACTIVE INGREDIENTS:

Pyrethrins.....	5.00%
*Piperonyl butoxide.....	25.00%
OTHER INGREDIENTS	70.00%
	100.00%

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

INDOOR AREAS for use in and around:

Animal Areas and Quarters	Churches	False Ceilings	Industrial Installations	Mortuaries	Restaurants	Tobacco Warehouses
Animal Control Centers	City Missions	Freight Containers	Institution Dining Areas	Motels	Retail Stores	Tool Sheds
Animal Shelters	Circus Tents	Fruit Packing Sheds	Institutions	Movie Theaters	Rice Mills	Trains
Apartments	Closets	Funeral Parlors	Jails	Museums	Schools	Transportation Equipment
Arcades	Club Houses	Garages	Kennels	Mushroom Processing Areas	Ship Holds	Trucks
Attics	Commercial Buildings	Garbage Bins	Laboratories	Nursing Homes	Ships	Truck Trailers
Auditoriums	Communication Centers	Garbage Cans	Laundromats	Office Buildings	Sports Stadiums	Tunnels
Bakeries	Concession Stands	Garbage Compactors	Lavatories	Other Public Buildings	Stables	Utilities
Bars	Condominiums	Garbage Trucks	Libraries	Parking Garages	Storage Areas for food in multi-walled paper or cloth bags	Utility Rooms
Basements	Court Houses	Gas Stations	Liquor Stores	Passenger Railroad Cars	Storage or Processing Areas that contain Dried Fruit Products	Vending Machines
Bathrooms	Crawl Spaces	Grain Elevators	Livestock Barns	Peanut Warehouses	Storage Bins (areas)	Veterinary Hospitals
Beverage Plants	Crematoriums	Grain Harvesting and Handling Equipment	Livestock Hauling Equipment	Pool Halls	Stores	Wall and Equipment Voids
Boats	Dairy and Livestock Barns	Grain Mills	Loafing Sheds	Poultry Houses	Supermarkets	Warehouses
Bottling Plants	Day Care Centers	Granaries	Locker Rooms	Poultry Plants	Swine Houses	Washrooms
Breweries	Delicatessens	Grocery Stores	Mausoleums	Pounds	Taverns	Wholesale Stores
Brewery Warehouses	Department Stores	Homes	Meat Packing Plants	Prisons	Textile Mills and Warehouses	Wine Cellars
Buildings	Diners	Horse Stables and Barns	Mess Halls	Public Storages	Theaters	Zoos
Buses	Dog Houses	Horse Trailers	Milk Rooms	Rabbit Processing Plants	Tobacco Factories	And other similar areas
Cabins	Drug Stores	Hospices	Mills	Railroad Cars		
Cabinets	Dumpsters	Hospitals	Mini-Storages	Recreational Vehicles		
Cafeterias	Dwellings	Hotels	Mobile Canteens	Research Animal Quarters		
Campers	Egg Processing Plants	Indoor Eating Establishments	Mobile Homes			
Canneries	Factories		Morgues			
Cattle Barns						

OUTDOOR AREAS for use in and around:

Alleys	Corrals	Kennels	Sidewalks
Amphitheaters	Courtyards	Levees	Side Yards
Amusement Parks	Curbs	Manure Piles	Stadiums
Athletic Fields (baseball, football, soccer)	Drive-In Restaurants	Outdoor Eating Establishments	Tennis Courts
Back Yards	Drive-In Theaters	Parking Lots	Truck Stops
Balconies	Dumpsters	Parks	Underpasses
Baseball Fields	Fair Grounds	Patios	Utility Rooms
Bleachers	Feedlots	Playgrounds	Outdoors
Bridges	Front Yards	Ranges	Weigh Stations
Carwashes	Game Fields	Recreational Areas	Wild Animal Parks
Campgrounds	Garbage Dumps	Rest Areas	Wood Piles
Circuses	Gazebos	Roadsides	Zoos
Construction Sites	Golf Courses	Rooftops	And other similar areas
	Junk Yards	Sanitary Sewers (manholes)	

FOR USE ON:

Beefalo	Ducks	Llamas	Pullets
Birds	Emus	Mules	Quail
Buffalo	Exotics such as	Ostrich	Ratites
Calves	European Red Deer	Oxen	Roosters
Cattle—beef, milking	Geese	Pheasants	Sheep
Chickens	Horses	Pigs	Swine
Donkeys	Lambs	Ponies	Turkeys

FOR THE CONTROL OF INSECTS including:

Almond Moths	Dark Mealworms	House Flies	Rusty Grain Beetles
Angoumois Grain Moths	Darkling Beetles	Indian Meal Moths	Saw-toothed Grain Beetles
Ants	Deer Flies	Khapra Beetles	Silverfish
Black Flies	Deer Ticks	Lesser Grain Borers	Skipper Flies
Blood Sucking Lice	Dermestid Beetles	Lesser House Flies	Spider Beetles
Box Elder Bugs	Dried Fruit Beetles	Mediterranean Flour Moths	Spiders
Brown Dog Ticks	Drugstore Beetles	Merchant Grain Beetles	Stable Flies
Cadelles	Earwigs	Midges	Sowbugs
Carpet Beetles	Face Flies	Millers	Ticks
Cereal Beetles	Firebrats	Millipedes	Ticks that may carry and transmit Lyme disease
Cheese Mites	Flat Grain Beetles	Mosquitoes (including those that may transmit West Nile Virus)	Tobacco Moths
Cheese Skippers	Fleas	Flying Moths	Trogoderma Beetles
Chocolate Moths	Flies	Palmetto Bugs	Warehouse Beetles
Cigarette Beetles	Fruit Flies	Pillbugs	Wasps
Clothes Moths	Gnats	Red Flour Beetles	Waterbugs
Clover Mites	Grain Mites	Rice Flour Beetles	Yellow Jackets
Cockroaches	Granary Weevils		Yellow Mealworms
Coffee Bean Weevils	Horn Flies		
Confused Flour Beetles	Hornets		
Crickets	Horse Flies		

DIRECTIONS FOR USE

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

USE RESTRICTIONS:

- Avoid contamination of food or feedstuffs.
- 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.
- Remove pets and birds and cover fish aquariums before spraying. Avoid exposing reptiles to this product.

ENTRY RESTRICTIONS

For Surface 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:

- Do not apply space spray while food processing is in operation. Prior to space spray application, cover or remove food. Prior to space spray application, cover or remove all food processing surfaces or clean after treatment and before use. Thoroughly wash all food processing surfaces before reuse. After spraying in bakeries, meat packing plants, food processing plants, etc., all benches, shelving, equipment, etc. where exposed food will be handled, must be washed with an effective cleaning compound followed by a potable water rinse to remove all traces of contamination.
- Do not apply directly to food, water or feed supplements. Do not contaminate milk or milk handling equipment. Wash udder and teats of dairy animals before milking.
- Except when applying to livestock, do not apply this product in a way that will contact worker 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.
- 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 applications when facility is in operation.
- Prior to space spray applications, cover or remove food.
- Prior to space applications, cover food processing surfaces or clean after treatment and before use.
- 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 make applications during the rain.
- Do not wet plants to the point of runoff or drip.
- 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 sewers, storm drains, water bodies, or aquatic habitat can occur.

READ ALL DIRECTIONS COMPLETELY BEFORE USE AND FOLLOW ALL DIRECTIONS AND PRECAUTIONS WHEN USING PRODUCT.

For best results, follow directions for specific use areas.

INDOOR USE—UNDILUTED

ULV AND SPACE SPRAY: Use in aerosol generators to kill exposed accessible stages of: Flies (including fruit flies), Mosquitoes, Small Flying Moths, Fleas, Gnats, Wasps, Hornets, Clover Mites, Cheese Mites, Cheese Skippers, Box Elder 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 and Red Flour Beetles. Close room and shut off all air conditioning or ventilating equipment. Apply at the rate of 1/2 to 1 fl. oz. concentrate per 1,000 cubic feet of space. Direct spray towards ceiling and upper corners of room. Leave room closed for 1/2 hour and ventilate thoroughly before re-entry.

CONTACT AND SPACE SPRAY: To kill Cockroaches, Silverfish, Earwigs, Ants and Spiders: use a mechanical aerosol generator or a fogger adjusted to deliver aerosol droplets. To provide maximum penetration and impingement on the insects, first, using no more than 17 fl. oz. of concentrate per 1,000 sq. ft., direct the spray into all cracks and crevices, behind all equipment, cupboards, obstructions or dark harborage areas, on walls and floors, underneath sinks, behind pipes, and in all places that harbor insects. Contact as many insects as possible. Do not allow spray to contact stored food. Then treat as a space spray, directing the spray towards the ceiling and upper corners of room, apply at a rate of 1 fl. oz. of concentrate per 1,000 cubic feet of space. Vacate treated area and leave the room closed for 1 hour. Ventilate thoroughly before re-entry. Facilities and equipment in federally inspected meat and poultry plants must be washed with an effective cleaning compound and rinsed with potable water after spraying.

DRIED FRUIT PRODUCT STORAGE AREAS: In storage or in processing for control of Almond Moths, Ants, Cereal Beetles, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Earwigs, Flies, Fruit Flies, Fungus Gnats, Indian Meal Moths, Mediterranean Flour Moths, Red Flour Beetles, Saw-toothed Grain Beetles, Silverfish, Dried Fruit Beetles, Warehouse Beetles, and Khapra Beetles. Do not apply to fruit directly. Apply as a fine mist or fog in the air above and around the trays, bins, and shelves at the rate of 1 fl. oz. of concentrate per 1,000 cubic feet of space. Repeat application at this dosage as required.

TREATMENT OF STORED FOOD AREAS: Foods in multi-walled bags, cloth bags or other packaging stored in such listed areas for the control of accessible adult stages of: Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils and Khapra Beetles. Destroy, fumigate, or treat infested stored products by other effective methods using an approved product intended for this purpose. Using no more than 17 fl. oz. of concentrate per 1,000 sq. ft., disperse by directing spray into cracks and crevices, corners, pallets and around stacks of packaged goods hitting as many insects as possible and then apply as a space spray at a dosage of 1 fl. oz. of concentrate per 1,000 cubic feet of room space. Vacate treated area and ventilate before re-entry.

ON PEANUTS, NUTS (ALMONDS AND WALNUTS), BEANS (INCLUDING COCOA), SEEDS (BIRDSEED MIXTURES, COTTONSEED AND FLAXSEED) AND COPRA IN BULK, BAGS OR OTHER PACKAGING: For the control of accessible stages of: Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils, Khapra Beetles and other listed insects, apply to the surface of stored or bagged products at the rate of 1/4 fl. oz. of concentrate per 1,000 sq. ft. Also spray walls, floors and 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 by directing the spray toward the ceiling and upper corners of the area and behind any obstructions. Apply at the rate of 0.33 or 1/3 fl. oz. of concentrate per 1,000 cubic feet of room space. Vacate treated area and ventilate before re-entry. Do not apply more than 1 time per day. Do not reapply within 7 days. Do not apply more than 10 times to sweet potatoes.

INDOOR USE—DILUTED

SPACE SPRAY: For use in mechanical fogging or spraying equipment to control accessible stages of Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils and Khapra Beetles. Remove or cover exposed food and cover food-handling surfaces in edible product areas of food handling establishments. Close room and shut off all air conditioning or ventilating equipment. Dilute at the rate of 1 part concentrate into 1 to 10 parts water and mix well. Apply at the rate of 1 to 2 fl. oz. of diluted product per 1,000 cubic feet of space, filling the room with mist. Vacate treated area and ventilate before re-entry.

Dilution table for ULV foggers

Dilution ratio		Fluid ounces of concentrate per ounce of solution volume	Fluid ounces of water per ounce of solution volume	Pounds pyrethrum per 1,000 cu. ft. when applied at 1 fl. oz. per 1,000 cu. ft.	Percent pyrethrins in solution
Concentrate	Water				
Undiluted	0	1.00	0.00	0.00330	5.060%
1	1	0.50	0.50	0.00165	2.530%
1	2	0.33	0.67	0.00110	1.687%
1	2.25	0.31	0.69	0.00101	1.557%
1	2.5	0.29	0.71	0.00094	1.446%
1	3	0.25	0.75	0.00082	1.265%
1	4	0.20	0.80	0.00066	1.012%
1	5	0.17	0.83	0.00055	0.843%
1	6	0.14	0.86	0.00047	0.723%
1	7	0.13	0.88	0.00041	0.632%
1	8	0.11	0.89	0.00037	0.562%
1	9	0.10	0.90	0.00033	0.506%
1	10	0.09	0.91	0.00030	0.460%

EXAMPLE: To determine how much concentrate to put into a 44 fl. oz. fogger tank to achieve a mix of 1 part concentrate with 5 parts water, multiply 0.17 (from chart above) times 44 (fluid ounces of solution needed) = 7.48 fl. oz. of concentrate (7.5 fl. oz. with rounding). Fill remainder of tank volume with 36.52 fl. oz. of water (36.5 with rounding) – to a total of 44 fl. oz.

FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS: Dilute 1 part concentrate with 4 parts water and use with a ULV spraying device at the rate of 1 fl. oz. of diluted product per 1,000 cubic feet of room space. Apply the 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. Before use, exposed food products and packaging materials must be covered or removed. After use, equipment and utensils must be washed with an effective cleaning compound and rinsed with potable water. Use as a space spray only when plant is not in operation. Repeat as necessary, but not more than once per day. Do not reapply within 1 day.

SURFACE SPRAY: To control accessible stages of: Cockroaches, Silverfish, Beetles, and Crickets: Dilute 3 fl. oz. of concentrate with 1 gallon of water, mix well and apply as a coarse wetting spray using 1 gallon of spray mixture per 1,000 sq. ft. of surface. To ensure maximum control of listed crawling insects, spray thoroughly into all cracks, molding, crevices, walls, floors and other surfaces of bins, storage and handling areas. Particular attention should be paid to areas where moisture collects such as around drains, sinks and water pipes and around the base of heavy machinery and equipment, contacting as many insects as possible.

ANTS: Spray directly into nests, along trails, and directly on all ants observed.

FOR IN-TRANSIT PROTECTION: To control accessible stages of listed insects, clean and spray truck beds, boxcars, ship holds and other listed transit equipment before loading. Thoroughly treat walls and floors and spray each layer of cartons or containers lightly as stacked. Dilute 3 fl. oz. of concentrate with 1 gallon of water for each 1,000 sq. ft. of area to be treated.

TREATMENT OF STORED GRAIN: To control accessible stages of: Indian Meal Moths and Angoumois Grain Moths: Dilute 3 fl. oz. of product with 1 gallon for each 1,000 bushels of grain to be treated. Apply diluted spray to the surface of binned grain. Apply at monthly intervals with the first appearance of infestation. In severe infestation of flying moths, break up webbing with a rake before spraying and make a second application in 2 weeks. Do not reapply within 30 days.

STORAGE AREAS FOR DRIED FRUIT PRODUCTS for control of: Confused Flour Beetles, Dried Fruit Beetles, Indian Meal Moths and Saw-toothed Grain Beetles. Remove and destroy infested products. Apply diluted spray as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Dilute at the rate of 1 part concentrate into 1 to 10 parts water and mix well. Use 1 fl. oz. of diluted product per 1,000 cubic feet of space. Repeat application at this dosage in any given month. Leave the room closed for 1 hour. Vacate treated areas and ventilate the area before re-entry. Sweep up and destroy fallen insects.

FOOD STORAGE AREAS containing multi-walled bags, cloth bags and other packaging in warehouses, storage rooms, flour mills, grain elevators, granaries and other listed areas for the control of: Angoumois Grain Moths, Cadelles, Confused Flour Beetles, Indian Meal Moths, Mediterranean Flour Moths, Rice Weevils, Saw-toothed Grain Beetles, Yellow Mealworms, Cheese Mites, Cheese Skippers, Cigarette Beetles, Grain Mites, Granary Weevils, Dark Mealworms and Red Flour Beetles: Remove and destroy infested products. First disperse diluted spray by directing spray into corners, under pallets, and around stacks of packaged foods hitting as many insects as possible and then treat as a space spray. Infested stored products should be fumigated or treated by other effective methods using an approved product intended for this purpose. Dilute at the rate of 1 part concentrate into 1 to 10 parts water and mix well. Use at a rate of 1 to 2 fl. oz. of diluted product per 1,000 cubic feet of space. Do not remain in treated areas and ventilate area before re-entry. This application will kill exposed stages of those stored product pests listed. Sweep up and destroy fallen insects.

FOR USE ON ANIMALS: To protect beef and dairy cattle and horses from Horn Flies, House Flies, Mosquitoes and Gnats, dilute 1 part concentrate with 49 parts water, mix well and apply a light mist sufficient to wet the tips of the hair. To control Stable Flies, Horse Flies and Deer Flies on animals apply 2 fl. oz. of diluted product per adult animal in an amount sufficient to wet the hair but not to soak the hide. Repeat treatment once or twice daily or at intervals to give continued protection. To control the motile stages of Blood Sucking Lice on beef and dairy cattle and other listed animals, apply the spray to thoroughly wet the hair. Use 2 fl. oz. of diluted product or less per animal and repeat every 2 to 3 weeks as required.

To control Poultry Lice, spray roosts, walls and nests or cages thoroughly with a dilution of 1 part concentrate with 25 parts water, followed by spraying over the birds with a fine mist.

ANIMAL QUARTER USE - DAIRY AND BEEF BARN, POULTRY HOUSES, SWINE HOUSING AND OTHER LISTED AREAS: For use in and around listed use areas to control accessible stages of: Brown Dog Ticks, Clover Mites, Cockroaches, Crickets, Deer Flies, Earwigs, Face Flies, Firebrats, Fleas, Flies, Horn Flies, Hornets, Mosquitoes, Silverfish, Small Flying Moths, Spiders, Stable Flies, Ticks, Wasps, Yellow Jackets, Fannia Flies and Darkling Beetles.

Apply as a space spray in conventional ULV cold aerosol generator or fogger adjusted to deliver aerosol size droplets. Whenever possible, perform space spray application in the late evening when insects are at rest. Apply undiluted at the rate of 0.25 to 1 fl. oz. per 1,000 cubic feet of space above the animals. This concentrate may also be diluted with water at the rate of 1 part concentrate to 10 parts water and applied at the rate of 1 to 2 fl. oz. of diluted product per 1,000 cubic feet of space above the animals. Direct spray toward the upper portions of the enclosure, above the animals, filling the room with mist or fog. Vacate treated area and ventilate before re-occupying.

To control Bed Bugs and Mites in poultry houses, prepare a dilution of 1 part concentrate to 25 parts water and spray crevices of roost poles and cracks in walls and nests where the Bed Bugs and Mites hide.

FOR USE IN AUTOMATIC ULV SPRAYING SYSTEMS, IN AREAS SUCH AS ANIMAL QUARTERS, DAIRY AND BEEF BARN, POULTRY HOUSES, SWINE HOUSING, WAREHOUSES, RESIDENTIAL BACKYARDS AND OTHER LISTED INDOOR AND OUTDOOR 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.

WHEN APPLYING VIA A 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 [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 PLASTIC SLEEVE.

THIS PRODUCT MUST ONLY BE USED IN SYSTEMS THAT HAVE BEEN CALIBRATED TO APPLY NO MORE THAN THE MAXIMUM APPLICATION RATE OF 1-2 FL. OZ. OF CONCENTRATE PER 1,000 CUBIC FEET (1.04 ML TO 2.08 ML/M3) OF SPACE ABOVE THE ANIMALS.

NOTE: NOT REGISTERED for use in Automatic ULV Spraying Systems in the state of New York.

Use to kill, or temporarily reduce annoyance from accessible stages of: Brown Dog Ticks, Clover Mites, Cockroaches, Crickets, Deer Flies, Earwigs, Face Flies, Firebrats, Fleas, Flies, Gnats, Horn Flies, Hornets, Horse Flies, House Flies, Mosquitoes (including those that may transmit West Nile Virus), Silverfish, Small Flying Moths, Spiders, Stable Flies, Ticks, Wasps, Yellow Jackets, Fannia Flies, Darkling Beetles and other nuisance insects.

Mix 1/2 gallon (64 fl. oz.) of concentrate in 55 gallons of water to yield a solution of 0.046% Pyrethrins and 0.23% Piperonyl Butoxide. For high populations of insects, or when treating species that are difficult to control, mix up to 1 gallon of concentrate in 55 gallons of water to yield a solution of .093% Pyrethrins and 0.46% Piperonyl Butoxide. When filling tank, partially fill the system reservoir tank with water, add concentrate, then fill rest of tank with water. System nozzles should deliver fine particle size droplets (aerosol or mist). Nozzles should have a delivery rate not to exceed 1.25 fl. oz. of solution per minute, with one nozzle covering 100 sq. ft. Set system timer to operate in accordance with equipment directions.

Since high water temperatures can degrade pyrethrins, it is recommended that system tanks be sheltered or insulated from direct exposure to the sun. Use of an EPA approved antimicrobial agent is also recommended. For best performance, the spray solution should be in the pH range from 5.5 to 7.0. Avoid setting up system nozzles in a manner that delivers spray solution into swimming pools, or pools containing fish and other organisms that may be sensitive to Pyrethrins. Automatic systems must be programmed so as not to activate and/or release pesticides when people, pets and food or feed are present. Install a rain sensor and a wind sensor on the system to control drift and runoff. Lock the system reservoir tank and securely attach a legible copy of the label to the system reservoir tank, or on the outside of the system timer. Never use concentrate in an evaporative cooling system.

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 such as (but not limited to) 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.

Automatic spraying 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 specific tank size, to be mixed with water to achieve 0.046% pyrethrin solution
1	1.16	1.16
15	1.16	17
20	1.16	23
30	1.16	35
55	1.16	64

OUTDOOR USE:

To kill accessible stages of listed flying insects in listed outdoor areas. If possible, space spray application should be made in the evening or early morning when Mosquitoes are typically most active. With a ULV spraying device, spray at a dosage rate of five (5) fl. oz. of undiluted concentrate per minute up-wind of the area to be controlled. If the equipment is truck mounted, keep the speed to approximately 10 mph with a swath width of 300 feet.

TEMPORARY REDUCTION OF ANNOYANCE from: Flies, Mosquitoes and Small Flying Moths. The aforementioned outdoor ground application will give temporary relief of annoyance from these pests in listed outdoor areas. Direct application into tall grass, shrubbery and around lawns where these pests may hover or rest. Apply while air is still. In areas such as zoos, cover water, drinking fountains and animal feed before use.

TO CONTROL PESTS ON SHRUBS, FRUIT AND SHADE TREES:

Pests: Aphids, Apple and Thorn Skeletonizers, Bagworms, Bean Beetles, Cabbageworms, Codling Moths, Cutworms, European Pine Shoot Moths, Flea Beetles, Hemlock Woolly Adelgids, Holly Bud Moths, Lacebugs, Leafhoppers, Leafminers, Leafrollers, Mealybugs, Oak Loopers, Obscure Root Weevils, Omnivorous Leaf-tiers, Pear Slugs, Scale Crawlers, Spider Mites, Tent Caterpillars, Thrips, Webworms and Whiteflies.

Plants: Birch, Crabapple, Dogwood, Douglas Fir, Elm, Euonymus, Hawthorn, Hemlock, Holly, Juniper, Lilac, Locust, Maple, Oak, Plum, Pine, Poplar, Spruce, Sycamore, Willow and Yew.

Mixing instructions: For shrubs and shade trees follow directions on applicator to obtain four (4) Tbs. (2 fl. oz.) concentrate per gallon of water.

1 Tablespoon (Tbs.) = 3 teaspoons (tsp.)

1 fl. oz. = 2 Tbs.

How to apply: Spray to wet plant leaves and branches until dripping.

AROUND HOUSE FOUNDATION:

Nuisance pests outdoors: Ants, Box Elder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Scorpions, Sowbugs, Spiders and Springtails.

Mixing instructions: For around house foundation follow directions on applicator to obtain four (4) Tbs. (2 fl. oz.) concentrate per gallon of water.

1 Tablespoon (Tbs.) = 3 teaspoons (tsp.)

1 fl. oz. = 2 Tbs.

How to apply: To keep insects from entering the house, spray a 5-foot band of soil around the house next to the foundation. Also spray the foundation of the house to a height of 2 feet. Also spray walks, firewood piles, garbage cans, tree trunks and into cracks and other places where insects can hide.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or 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: Nonrefillable 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.

Triple Rinse as follows [for containers of 5 Gallons (18.9 L) 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 (18.9 L)]: 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers must wear the following:

- long-sleeved shirt,
- long pants,
- chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber, polyvinyl chloride or viton, and
- shoes and socks.

In addition to the above PPE, applicators using a high pressure wand in an enclosed area must wear at least a NIOSH-approved respirator with:

- a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or
- any R, P, or HE filter.

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 dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21C), or
- a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or
- a cartridge or canister with any R,P or HE filter.

USER SAFETY REQUIREMENTS

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

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 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.

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 the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

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.

RIPTIDE[®]
Waterbased Pyrethrin ULV

EPA Reg. No. 1021-1785
EPA Est. No. 1021-MN-2
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8810 Tenth Avenue North, Minneapolis, MN 55427

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