

# RIPTIDE™

Waterbased Pyrethrin ULV

- **Kills Stored Product Pests**
- **Kills Cockroaches**
- **Kills Flying Insects**
- **Kills Crawling Insects**
- **Kills Mosquitoes**

## ACTIVE INGREDIENT:

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

\*Equivalent to 20.00% (butylcarbityl) (6-propylpiperonyl) ether and 05.00% related compounds.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

See reverse for first aid and precautionary statements.

### INDOOR AREAS for use in and around:

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

### OUTDOOR AREAS for use in and around:

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

### FOR USE ON:

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

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

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

Remove pets and birds and cover fish aquariums before spraying. Avoid exposing reptiles to this product.

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.

For best results, follow directions for specific use areas.

**ULV AND SPACE SPRAY:** Use in aerosol generators to kill exposed accessible stages of: Flies (including Fruit Flies), Mosquitoes, Small Flying Moths, Flies, 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, Caddisflies and Red Flour Beetles. Close room and shut off all air conditioning or ventilating equipment. Apply at the rate of 1/2 to 1 fluid ounce 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.

**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 fluid ounce per 1,000 cubic feet of space. Repeat application at this dosage as required.

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. Infested stored products should be destroyed, fumigated or treated by other effective methods using an approved product intended for this purpose. As noted above, first 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 fluid ounce per 1,000 cubic feet of room space. Vacate treated area and ventilate before re-entry.

### INDOOR USE—DILUTED

### 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 1000 cu. ft.	Percent pyrethrins in solution
Concentrate	Water				
Undiluted	0	1.00	0.00	0.0033	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%

**FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS:** Dilute one part concentrate with 4 parts water and use with a ULV spraying device at the rate of one fluid ounce 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 1–3 fluid ounces of concentrate with one gallon of water, mix well and apply as a coarse wetting spray using approximately 1 gallon of spray mixture per 750 square feet of surface. To ensure maximum control of listed crawling insects, spray thoroughly into all cracks, molding, crevices, walls, floors and surfaces of bins, storage and handling areas. Particular attention should be paid to areas where moisture collects such as 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. Apply diluted spray at the rate of 1 gallon per 1,000 square feet.

**TREATMENT OF STORED GRAIN:** To control accessible stages of: Indian Meal Moths and Angoumois Grain Moths: Apply diluted spray to the surface of binned grain at a rate of 0.5 gallons per 1,000 cubic feet. Apply at monthly intervals with the first appearance of infestation. In severe infestations of flying moths, break up webbing with a rake before spraying and make a second application in two weeks.

**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. Use 1 fluid ounce per 1,000 cubic feet of space. Repeat application at this dosage in any given month. Leave the room closed for one 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. Use at a rate of 1-2 fluid ounces 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 fluid ounces per adult animal, 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 fluid ounces 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 the birds with a fine mist.

**ANIMAL QUARTER USE - DAIRY AND BEEF BARNS, 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.

As a space spray in conventional ULV cold aerosol generators or foggers adjusted to deliver aerosol size droplets. Whenever possible, space spray application should be made in the late evening when insects are at rest. Apply undiluted at the rate of 0.25-1.0 fluid ounces 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 1-2 fluid ounces 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 Bedbugs and Mites in poultry houses, prepare a dilution of 1 part concentrate to 25 parts water and spray crevices of roost poles, cracks in walls, and cracks in nests where the Bedbugs and Mites hide.

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

Use to control, 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, Mosquitoes, 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 be rated for a delivery rate not to exceed 1.25 fluid ounces of solution per minute, with one nozzle covering 100 square feet. 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 of 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

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 0.046% pyrethrin solution
1	1.16	1.16
15	1.16	17
20	1.16	23
30	1.16	35
55	1.16	64

and/or release pesticides when people, pets and food or feed are present. A rain sensor and a wind sensor should be installed on the system to control drift and runoff. The system reservoir tank should be locked and a legible copy of the label securely attached 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 that are 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.

OUTDOOR USE:

To control 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 5 fluid ounces of undiluted concentrate per minute.

**TEMPORARY REDUCTION OF ANNOYANCE from:** Flies, Mosquitoes and Small Flying Moths. The aforementioned outdoor ground application will give temporary relief of annoyance from the 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 Wolly Adelgids, Holly Bud Moths, Lacebugs, Leafhoppers, Leafminers, Leafrollers, Mealybugs, Oak Looper, Obscure Root Weevils, Omnivorous Leafhoppers, 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 hose end applicator to obtain four (4) Tbs (2 fl. oz.) per gallon of water.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fluid ounce = 2 Tbs

**How To Apply:** Spray plant to wet the leaves and branches until dripping.

AROUND HOUSE FOUNDATION:

**Nuisance Pests Outdoors:** Ants, Boxelder 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 hose end applicator to obtain four (4) Tbs (2 fl. oz.) per gallon of water.

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fluid ounce = 2 Tbs

**How To Apply:** To keep insects from entering the house, spray a 5 feet 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.

**STORAGE:** Store in a cool, dry place. Keep container closed.

**DISPOSAL:**

**If empty:** Do not reuse container. Place in trash or offer for recycling if available.

**If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish and other aquatic invertebrates. Do not contaminate water when disposing of equipment wash waters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail).

## FIRST AID

- IF SWALLOWED:**
- Immediately call a poison control center or doctor.
  - Do not induce vomiting unless told to do so by the 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**
- Take off contaminated clothing.
- OR 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 the International Poison Center at 1-888-740-8712.

The logo for RIPTIDE, featuring the word "RIPTIDE" in a bold, italicized, blue sans-serif font. The letters are slightly slanted to the right, giving it a sense of motion or speed.

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