**Kills Mosquitoes**

**Kills Flying Insects**

**Kills Crawling Insects**

**Kills Stored Product Pests**

**Kills Cockroaches**

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**INDOOR AREAS for use in and around:**

- Condominiums
- Court Houses
- Crawl Spaces
- Cre调研
- Dairy and Livestock Barns
- Day Care Centers
- Delicatessens
- Department Stores
- Drug Stores
- Dairy–beef, milking
- Cattle–beef, milking
- Cattle Barns
- Churches
- City Missions
- Circus Tents
- Closets
- Club Houses
- Commercial Buildings
- Communication Centers
- Concession Stands
- Garages
- Grain Mills
- Granaries
- Grocery Stores
- Homes
- Horse Stables and Barns
- Horse Trailers
- Horse Hospitals
- Hotels
- Indoor Eating Establishments
- Industrial Installations
- Institution Dining Areas
- Institutions
- Jails
- Kennels
- Laboratories
- Labormats
- Libraries
- Liquor Stores
- Livestock Barns
- Livestock Housing Equipment
- Loafing Sheds
- Locker Rooms
- Mausoleums
- Meat Packaging Plants
- Mess Halls
- Milk Rooms
- Mills
- Mini-Storage
- Mobile Canteens
- Mobile Homes
- Morgues
- Mortuaries
- Motels
- Movie Theaters
- Museums
- Mushroom Processing Areas
- Nursing Homes
- Office Buildings
- Other Public Buildings
- Parking Garages
- Passenger Railroad Cars
- Peanut Warehouses
- Pool Halls
- Poultry Houses
- Poultry Plants
- Pounds
- Prisons
- Public Storage Rabbit
- Processing Plants
- Railroad Cars
- Recreation Vehicles
- Research Animal Quarters
- Restaurants
- Retail Stores
- Rice Mills
- Schools
- Ship Holds
- Ships
- Smoke Shops
- Sports Stadiums
- Stables
- Storage Bins (areas)
- Storage Areas for food in multi-walled paper or cloth bags
- Stores
- Supermarkets
- Swine Houses
- Taverns
- Textile Mills and Warehouses
- Theaters
- Tobacco Factories
- Tobacco Warehouses
- Tool Sheds
- Trains
- Transportation Equipment
- Trucks
- Truck Trailers
- Tunnels
- Utilities
- Utility Rooms
- Vending Machines
- Veterinary Hospitals
- Wall and Equipment Voids
- Warehouses
- Washrooms
- Wholesale Stores
- Wine Cellars
- Wineries
- Zoos

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**OUTDOOR AREAS for use in and around:**

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

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**FOR USE ON:**

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

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**ACTIVE INGREDIENTS:**

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

*Equivalent to 20.00% (butylcarbityl)(β-propylpiperonyl) ether and 5.00% related compounds.

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**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See reverse for first aid and precautionary statements.
DILUTION TABLE FOR ULV FOGGERS

<table>
<thead>
<tr>
<th>Dilution ratio</th>
<th>Concentrate</th>
<th>Water</th>
<th>Fluid ounces of concentrate per ounce of solution</th>
<th>Fluid ounces of water per ounce of solution</th>
<th>Pounds pyrethrum per 1,000 cu. ft. when applied at 1 fl. oz. per 1,000 cu. ft.</th>
<th>Percent pyrethrins in solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00033</td>
<td>5.06%</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1.50</td>
<td>0.50</td>
<td>0.50</td>
<td>0.00016</td>
<td>2.53%</td>
<td></td>
</tr>
<tr>
<td>2</td>
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<td>0.67</td>
<td>0.67</td>
<td>0.00110</td>
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</tr>
<tr>
<td>2.25</td>
<td>0.31</td>
<td>0.69</td>
<td>0.69</td>
<td>0.00101</td>
<td>1.55%</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.29</td>
<td>0.71</td>
<td>0.71</td>
<td>0.00094</td>
<td>1.44%</td>
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</tr>
<tr>
<td>3</td>
<td>0.25</td>
<td>0.75</td>
<td>0.75</td>
<td>0.00082</td>
<td>1.26%</td>
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</tr>
<tr>
<td>4</td>
<td>0.20</td>
<td>0.80</td>
<td>0.80</td>
<td>0.00066</td>
<td>1.01%</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0.17</td>
<td>0.83</td>
<td>0.83</td>
<td>0.00055</td>
<td>0.84%</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>0.14</td>
<td>0.86</td>
<td>0.86</td>
<td>0.00047</td>
<td>0.72%</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>0.13</td>
<td>0.88</td>
<td>0.88</td>
<td>0.00041</td>
<td>0.63%</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.11</td>
<td>0.89</td>
<td>0.89</td>
<td>0.00037</td>
<td>0.56%</td>
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</tr>
<tr>
<td>9</td>
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<td>0.90</td>
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<td>0.50%</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>0.09</td>
<td>0.91</td>
<td>0.91</td>
<td>0.00030</td>
<td>0.46%</td>
<td></td>
</tr>
</tbody>
</table>

EXAMPLE: To determine how much concentrate to put into a 44 fluid ounce 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 fluid ounces of concentrate (7.5 fluid ounces with rounding). Fill remainder of tank volume with 36.52 fluid ounces of water (36.5 with rounding) – to a total of 44 fluid ounces.

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 to 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 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 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, Clover Mites, Granary Weevils, Grubworms 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 to 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 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 to 16 parts water. Follow 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, Flies, Fleas, Horse Flies, Gnats, 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 generators or foggers adjusted to deliver 1.16 fluid ounces per 100 square feet of space. Do not remain in treated areas and ventilate area 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, cracks in walls, and cracks in nests where the Bed Bugs 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, Flies, Gnats, Horse Flies, Horn Flies, Houseflies, 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 0.93% 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. 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 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 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 an 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 zoo, cover water, drinking fountains and animal feed before use.

TO CONTROL PESTS ON SHRUBS, FRUIT AND SHADE TREES:


Mixing instructions: For shrubs and shade trees follow directions on hose end applicator to obtain four (4) Tbs. (2 fl. oz.) concentrate 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, Face Flies, Millipedes, Spiders, Spiders and Springtails.

Mixing instructions: For around house foundation follow directions on hose end applicator to obtain four (4) Tbs. (2 fl. oz.) concentrate 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 walkways, 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.

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.