

499-450

07/30/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Patricia Hodge, Regulation Specialist  
Whitmire Micro-Gen Research Laboratories, Inc  
3568 Tree Court Industrial Blvd  
St. Louis, MO 63122-6682

**JUL 30 2009**

Dear Ms. Hodge,

Subject: Label Amendment  
EPA Registration No. 499-450  
Product Name: ULD BP-300 Insecticide  
Submission dated August 13, 2008

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, is acceptable. A stamped copy of the label is enclosed for your records.

If you have any questions, please contact Kevin Sweeney, at (703) 305-5063. Thank you for your patience and cooperation in this matter.

Sincerely,

Richard Gebken  
Product Manager 10  
Insecticide Branch  
Registration Division (7505P)

Enclosure

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Master Label

V8.0.4 (7/09)

[ ] = alternate/optional text

# ULD® BP-300 Insecticide

For indoor or outdoor application as a space, area or contact spray. Dependent upon insects to be killed and the area to be treated, this product may be applied through mechanical aerosol or Ultra Low Volume (ULV) cold aerosol generators such as Whitmire Micro-Gen equipment, as well as thermal and conventional fogging or spraying equipment.

### KILLS:

Angoumois Grain Moths, Ants, Box Elder Bugs, Cadelles, Cheese Mites, Cigarette Beetles, Confused Flour Beetles, Crickets, Earwigs, Fruit Flies, Gnats, Granary Weevils, House Flies, Indianmeal Moths, Mosquitoes, Rice Weevils, Roaches, Spiders, Tobacco Moths, Wasps and Water Bugs.

### FOR USE IN:

Apartments, Cafeterias, Dormitories, Food Service Storage and Preparation Areas, Grocery and Convenience Stores, Health Care Facilities, Hotels, Motels, Office Buildings, Restaurants, Schools and Universities.

[See inside booklet for additional insects and use sites.]

### ACTIVE INGREDIENTS:

Pyrethrins*, a botanical insecticide.....	3.00%
Piperonyl butoxide, technical**.....	6.00%
n-Octyl bicycloheptene dicarboximide***.....	10.00%

OTHER INGREDIENTS: ..... 81.00%

Contains Petroleum Distillate TOTAL: 100.00%

\* 1 gallon contains 0.208 lb of pyrethrins

\*\* Consists of 4.80% (butylcarbityl) (6-propylpiperonyl) ether and 1.20% related compounds.

\*\*\* MGK-264 Insecticide Synergist

## KEEP OUT OF REACH OF CHILDREN CAUTION

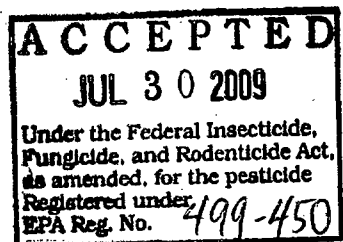
[See inside booklet for insects and use site, First Aid and Precautionary Statements, Directions for Use and Storage and Disposal.]

EPA Reg. No. 499-450 • EPA Est. No. 499-MO-1

*ULTRA LOW DOSAGE THROUGH MICRON GENERATION*



**WHITMIRE MICRO-GEN**  
RESEARCH LABORATORIES, INC.  
800-777-8570



**FIRST AID**

**IF SWALLOWED:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 min. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eyes open and rinse slowly and gently with water for 15 - 20 min. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. 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. You may also call 1-800-225-3320 for emergency medical treatment information.

**NOTE TO PHYSICIAN:** Contains petroleum distillate - vomiting may cause aspiration pneumonia.

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum and using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

**ENVIRONMENTAL HAZARDS**

This product is highly toxic to fish. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

**TERRESTRIAL USES:** Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters.

**WIDE-AREA MOSQUITO CONTROL APPLICATIONS BY GROUND OR AERIAL EQUIPMENT:** Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish. Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries) except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

Do not apply to blooming crops or weeds when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by the state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use or store near heat or open flame. **Note:** Some furniture finishes and particularly plastics can be damaged by petroleum based insecticides. To avoid damage, cover those items and do not spray directly. If in doubt, test by applying this material to an inconspicuous area before spraying.

**DIRECTIONS FOR USE**

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

See separate directions and precautions for Wide Area Mosquito Control Applications.

**Use Restrictions**

- Apply this product only as specified on this label.
- Do not remain in treated area.
- Do not allow adults, children or pets to enter until treated area has been thoroughly ventilated.
- Do not apply directly to food.
- Remove and cover all food and water in the treatment area before use.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces in the treated area before use or wash them thoroughly after ventilation of treated area.
- Cover all food processing surfaces and equipment in the treatment area or wash with an effective cleaning compound followed by a potable water rinse after use of this product.
- Remove pets, birds and cover fish aquariums and turn off air pump motor before application.

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- In health care facilities, remove patients prior to treatment and thoroughly ventilate treated area for 2 hrs before returning patients.

**INDOOR USE, UNDILUTED**

**AS A SPACE SPRAY - To kill accessible stages of Insects\* infesting dried fruit products in storage or being processed:** Close room or warehouse and shut off all ventilating systems. Apply as space spray using a Whitmire Micro-Gen ULV unit, or similar equipment to dispense this product as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Use a dosage not to exceed 64 fl oz/50,000 ft<sup>3</sup> of room space. Do not remain in treated areas after application, and leave room closed for at least 1hr. Ventilate thoroughly before occupants are allowed to reenter. Repeat application every 30 days.

\* Confused Flour Beetle, Dried Fruit Beetle, Indianmeal Moth, Roaches and Saw-toothed Grain Beetle

**AS A SPACE SPRAY - To kill the adult and accessible forms of insect pests\*\* of stored food (stored in multiwall paper bags or in cloth bags) in warehouses and storage rooms:** Close room or warehouse and shut off all ventilating systems. Apply as space spray using a Whitmire Micro-Gen ULV unit, or similar equipment to dispense this product. Use a dosage of 1 fl oz/1,000 ft<sup>3</sup> of room space. Do not remain in treated areas after application and leave room closed for at least 1 hr. Ventilate thoroughly before occupants are allowed to reenter. Reapply once/day if retreatment is necessary.

\*\* Among these are the Angoumois Grain Moth, Cadelles, Confused Flour Beetle, Indianmeal Moth, Mediterranean Flour Moth, Rice Weevil, Saw-toothed Grain Beetle and Yellow Meal Worm

**CONTACT AND SPACE SPRAY:** Use full strength or dilute as desired according to dilution table listed below and apply through equipment which can deliver a pin-stream spray. Apply the spray into all cracks and crevices in woodwork, walls, floors, underneath sinks, behind pipes and in all places where these insects harbor. Contact as many insects as possible with the spray. Do not allow spray to contact stored food. Then, with a mechanical aerosol generator (no droplets > 50 microns in diameter and 80% < 30 microns), apply this product undiluted at a dosage rate of approximately 0.5 fl oz/1,000 ft<sup>3</sup> of room space or, when applying diluted product, apply at the rate of 1 - 2 fl oz/1,000 ft<sup>3</sup> of room space. Do not remain in treated areas after application and leave the room closed for 1 hr. Ventilate the area thoroughly before occupants are allowed to reenter. Reapply once/day if retreatment is necessary.

**DILUTION:** Use a white mineral oil conforming to regulation 21 CFR 178.3620(b), or an odorless light petroleum hydrocarbon conforming to 21 CFR 172.882 or 40 CFR 180.910 (Inert ingredients used pre and post-harvest; exemptions from the requirement of a tolerance), and 180.930 (Inert ingredients applied to animals; exemptions from the requirement of a tolerance). Combine oil and concentrate as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Application Rate/1,000 ft <sup>3</sup>
1.00	1 Part Concentrate to 2 Parts Oil	1 fl oz
0.50	1 Part Concentrate to 5 Parts Oil	1 fl oz
0.30	1 Part Concentrate to 9 Parts Oil	1 - 2 fl oz
0.15	1 Part Concentrate to 19 Parts Oil	1 - 2 fl oz

**SPACE SPRAY -** To kill flying and crawling insects in establishments operating under the Federal meat, poultry, shell egg grading and egg products inspection programs: Dilute concentrate with a white mineral oil or odorless light petroleum as listed in the above paragraph, at the rate of 1 part concentrate to 2 parts oil, and mix well. Do not apply while food processing is underway. Cover or remove any exposed food. Cover food processing surfaces and equipment or wash with an effective cleaning compound followed by a potable water rinse. Close doors and windows and shut off all ventilating equipment prior to application. Using Whitmire Micro-Gen ULD equipment adjusted to deliver aerosol droplets ( $\leq$  30 microns), apply 1 fl oz/1000 ft<sup>3</sup> of space. Leave room closed for 1 hr after application and ventilate thoroughly before occupants are allowed to reenter. Reapply once/day if retreatment is necessary.

**SPOT APPLICATION:** With equipment designed for deep void Ultra Low Volume (ULV) applications, follow the manufacturer's recommendations for proper equipment setup and operation pressures. Place the tip of the applicator at or into the crack or crevice to be treated. Apply product in short bursts while keeping tip in position. Allow the air stream to push insecticide deep into voids. Repeat application as necessary to flush insects from voids. Avoid applying to the point of runoff or drip. Ventilate thoroughly before occupants are allowed to reenter.

Reapply once/day if retreatment is necessary.

**LINEAR APPLICATION ALONG BASEBOARDS, TRIM MOLDING AND VOIDS:** With equipment designed for deep void ULV application, move applicator tip along the crevice to be treated applying a constant burst of insecticide. Move the tip at a steady rate of approx. 1 ft/sec. Avoid applying to the point of runoff or drip. Reapply once/day if retreatment is necessary. Ventilate thoroughly before occupants are allowed to reenter.

**OUTDOOR USE**

**OUTDOOR GROUND FOGGING APPLICATION:** Use diluted to kill flies, mosquitoes and gnats. Dilute concentrate with petroleum distillate at the rate of 1 part concentrate to 2 parts oil and mix well. Use at a time when the temperature is cool ( $\leq$  75°F) and the wind velocity is approx. 10 mph.

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**HANDHELD EQUIPMENT:** When using ULD equipment such as Whitmire Micro-Gen equipment, apply at the rate of 4 oz/acre. Figure application travel path for a coverage of a 50 ft swath. Allow spray drift to penetrate dense foliage. Repeat application 2 times/week.

**For wide area community applications, see the Wide Area Mosquito Control section for appropriate Precautions and Directions for Use.**

**FOR USE ON ANIMALS**

Dilute 1 part concentrate to 5 parts oil and mix well. To protect beef cattle, dairy cattle and horses from horn flies, house flies, mosquitoes and gnats, apply a light mist sufficient to wet the tips of the hair. To kill stable flies, horse flies and deer flies on beef cattle, dairy cattle and horses, apply 2 fl oz/adult animal, sufficient to wet the hair but not to soak the hide. To kill the motile stages of blood sucking lice on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use ≤ 2 fl oz/animal and repeat every 2 – 3 wks as required.

**Do not use on dogs or cats.**

**Use Restrictions**

- Do not apply more than 1 time/day.
- Do not reapply within 1 day
- Do not remain in treated area.
- Do not allow unprotected persons to enter until treated area has been thoroughly ventilated.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container in secured dry storage area. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site in accordance with the label directions or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container! Empty container by using the product according to the label directions. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

[(≤5 gal) 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 1/4 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 2 more times.]

[(>5 gal) Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure 2 more times.]

Place empty, triple rinsed container in trash or offer for recycling if available. If container is partly filled, call your local solid waste agency for disposal instructions. **NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!**

ULD® and Crack & Crevice® are registered trademarks of Whitmire Micro-Gen Research Laboratories, Inc.

In addition to sites listed previously, this product is acceptable for use in and around the following sites:

**INDOOR:**

- Animal Areas and Quarters
- Apartments
- Auditoriums
- Bakeries
- Beverage Plants
- Boats
- Bottling Plants
- Brandy Storage Warehouses
- Buildings
- Buses
- Cabins
- Cafeterias
- Canneries
- Cattle Barns
- Churches

- Closets
- Condominiums
- Communication Centers
- Convenience Stores
- Correctional Facilities
- Dairy and Livestock Barns
- Dormitories
- Dried Fruit Processing Plants
- Drains and Sewers
- Dried Fruit Warehouses
- Drugstores
- Dumpsters
- Dwellings
- Egg Processing Plants
- Factories
- Flour Mills

- Food Handling Establishments
- Food Preparation Areas
- Food Processing Plants
- Food Service Areas
- Food Storage Areas
- Freight Containers
- Fruit Packing Sheds
- Garbage Cans
- Garbage Compactors
- Goat Houses
- Grain Elevators
- Grain Mills
- Grain Handling Equipment
- Granaries
- Grocery Stores
- Health Care Facilities

Master Label

V8.0.4 (7/09)

Homes  
Hotels  
Horse Stables/Barns  
Hospices  
Industrial Installations  
Institutions  
Jails  
Laboratories  
Libraries  
Livestock Barns  
Loafing Sheds  
Locker Rooms  
Mills  
Mausoleums  
Meat Packing Plants  
Milk Rooms  
Missions  
Mobile Homes  
Motels  
Museums  
Mushroom Processing Plants  
Nursing Homes  
Office Buildings / Offices  
Passenger Rail Cars  
Peanut Processing Plants  
Peanut Storage Warehouses  
Poultry Houses  
Poultry Processing Plants  
Prisons  
Public Buildings

Rabbit Processing Plants  
Rabbit Houses  
Railroad Cars  
Recreational Vehicles  
Research Animal Areas  
Restaurants  
Restrooms  
Rice Mills  
Schools  
Shade Houses  
Ships  
Ship holds  
Stables  
Stable Bins  
Stored Food in Multi-walled  
Paper or Cloth Bags  
Stored Seed Warehouses  
Stores  
Supermarkets  
Swine Houses  
Textile Mills and Warehouses  
Theaters  
Tobacco Plants  
Tobacco Warehouses  
Townhouses  
Trains  
Transportation Equipment  
Trucks  
Truck Trailers  
Universities

Utilities  
Utility Rooms  
Voids (Attics, Walls, Ceilings)  
Warehouses  
Wineries  
Wine Storage Warehouses  
Zoos  
**OUTDOOR:**  
Campgrounds  
Corrals  
Drive-in Restaurants  
Drive-in Theaters  
Dumpsters  
Feedlots  
Garbage Dumps  
Golf Courses  
Junkyards  
Kennels  
Landscapes  
Lath Houses  
Manure Piles  
Parks  
Plantscapes  
Playgrounds  
Recreational Areas  
Sewers  
Swineyards  
Zoos

This product is also effective against the following insects when used according to label directions:

**FLYING INSECTS:**

Aphids  
Barn Flies  
Bees  
Black Flies  
Blow Flies  
Bottle Flies  
Box Elder Bugs  
Cheese Skippers  
Deer Flies  
Face Flies  
Flies  
Fruit Flies  
Fungus Gnats  
Gnats  
Horn Flies  
Hornets  
Horse Flies  
House Flies  
Mosquitoes  
Mushroom Flies  
Skipper Flies  
Stable Flies  
Thrips  
Vinegar Flies

Wasps

Whiteflies  
Yellow Jackets

**GRAIN BORERS:**

Larger Grain Borers  
Lesser Grain Borers

**CRAWLING INSECTS:**

Ants  
Bed Bugs  
Booklice  
Cabbage Loopers  
Cabbage Worms  
Centipedes  
Chiggers  
Chrysanthemum Leaf Miners  
Crickets  
Earwigs  
Fire Ants  
Firebrats  
Grasshoppers  
Mealy Bugs  
Millipedes  
Palmetto Bugs  
Pill Bugs  
Roaches

Scorpions

Sowbugs  
Vegetable Leaf Miners  
Water Bugs

**FLEAS AND TICKS:**

Brown Dog Ticks  
Fleas  
Sheep Ticks  
Spinos Ear Ticks  
Ticks

**SPIDERS AND MITES:**

Clover Mites  
Cheese Mites  
Grain Mites  
Red Spider Mites  
Spider Mites  
Spiders

**LICE:**

Mounting Stages of Yellow  
Lice & Sucking Blue Lice

**WORMS:**

Dark Mealworms  
Lesser Mealworms  
Yellow Mealworms

**BETLES:**

- American Black Flour Beetles
- Black Carpet Beetles
- Black Fungus Beetles
- Broad horned Flour Beetles
- Brown Spider Beetles
- Cadelles
- Carpet Beetles
- Catorama Beetles
- Cereal Beetles
- Cigarette Beetles
- Confused Flour Beetles
- Corn Sap Beetles
- Darkling Beetles
- Depressed Flour Beetles
- Dermestid Beetles
- Dried Fruit Beetles
- Drugstore Beetles
- Flat Grain Beetles
- Foreign Grain Beetles
- Fungus Beetles

**Ground Beetles**

- Hairy Fungus Beetles
- Hairy Spider Beetles
- Hide Beetles
- Khapra Beetles
- Large Black Flour Beetles
- Longheaded Flour Beetles
- Merchants Grain Beetles
- Mexican Grain Beetles
- Murmidius Beetles
- Red Flour Beetles
- Red Horned Grain Beetles
- Rusty Grain Beetles
- Saw-toothed Grain Beetle
- Slenderhorned Flour Beetles
- Smalleyed Flour Beetles
- Spider Beetles
- Squarenecked Grain Beetles
- Trogoderma Beetles
- Two Banded Beetles
- White Marked Spider Beetles

**WEEVILS:**

- Bean Weevils
- Broadnosed Grain Weevils
- Coffee Bean Weevils
- Granary Weevils
- Maize Weevils
- Rice Weevils

**MOTHS:**

- Almond Moths
- Angoumois Grain Moths
- Chocolate Moths
- Clothes Moths
- Cocoa Bean Moths
- European Grain Moths
- Indian Meal Moths
- Mediterranean Flour Moths
- Rice Moths
- Pink Scavenger Caterpillars
- Tobacco Moths

**WIDE AREA MOSQUITO CONTROL**

For wide area community applications by ground or aerial equipment, Ultra Low Volume (ULV) sprays or fogs.

For use only by federal, state, tribal or local government officials responsible for public health or vector control or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications by persons under their direct supervision.

**DIRECTIONS FOR USE**

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING**

**OUTDOOR USE – MOSQUITO CONTROL**

Use at 0.5% to 3.0% dilution

**RESTRICTIONS:** Do not apply more than 0.2 lb Pyrethrins AI/acre/year and 2.0 lb. Piperonyl Butoxide AI/acre/year respectively in any treated area. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

**OUTDOOR GROUND FOGGING APPLICATION:** Use to kill mosquitoes in open areas near buildings and in campgrounds. Use preferably at a time when temperature is cool ( $\leq 75^{\circ}\text{F}$ ) and the wind velocity is approx.  $\leq 10$  mph.

**DILUTION:** Use a white mineral oil conforming to regulation 21 CFR 178.3620(b), or an odorless light petroleum hydrocarbon conforming to 21 CFR 172.882 or 40 CFR 180.910 (Inert ingredients used pre and post-harvest; exemptions from the requirement of a tolerance), and 180.930 (Inert ingredients applied to animals; exemptions from the requirement of a tolerance). Combine oil and BP-300 as directed below and mix well just prior to application. Product may be applied diluted or undiluted.

Pyrethrin % Desired	Mixture Rate	Fluid Ounces of Diluted Product Delivers 0.0025 lb Pyrethrins/Acre
3.0%	Undiluted	1.54 fl oz
1.0%	1 Part Conc. To 2 Parts Oil	4.8 fl oz
0.50%	1 Part Conc. to 5 Parts Oil	9.7 fl oz
0.30%	1 Part Conc. to 9 Parts Oil	16.1 fl oz
0.25%	1 Part Conc. to 11 Parts Oil	19.4 fl oz
0.15%	1 Part Conc. to 19 Parts Oil	32.2 fl oz
0.10%	1 Part Conc. to 29 Parts Oil	48.5 fl oz

This product may be used for mosquito control programs involving residential, industrial, recreational and agricultural areas as well as swamps, marshes, overgrown waste areas, roadsides and pastures where adult mosquitoes occur. This product may be used over agricultural crops. For best results, apply when temperature is  $\geq 50^{\circ}\text{F}$ , when meteorological conditions create a temperature inversion and wind speed is  $> 1$  mph. The application should be made so the wind will carry the insecticidal fog into the area being treated. Do not apply

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more than once/day at a rate of 0.0025 lb/acre/day for a maximum of 80 applications/year. No more than 10 applications should be made to a site in any 2 weeks. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

**GROUND-BASED:** To control adult mosquitoes and biting flies, apply up to 0.0025 lb of pyrethrins/acre. Spray equipment must be adjusted so that the volume median diameter is < 20 microns (Dv 0.5 < 20 µm) and that 90% of the spray is contained in droplets < 50 microns (Dv 0.9 < 50 µm). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**TRUCK-MOUNTED ULV APPLICATION:** Apply up to 0.0025 lb pyrethrins/acre while the machine is traveling 5 - 20 mph. Position the nozzle approximately 30° above the horizontal off the side of the truck bed. The delivery rate and truck speed may be varied as long as the application rate is 0.0025 lb of pyrethrins/acre (use a 300 ft swath width for acreage calculations). When using Whitmire Micro-Gen or similar truck mounted ULV equipment, spray at a dosage rate prescribed in the flow rate table from a location up-wind where insects are to be controlled. Keep speed of vehicle to approx. 5 - 20 mph. Figure application travel path for a coverage of a 300 ft swath. Apply no more than 0.0025 lb/acre 3 times/week.

**FLOW RATE  
For Maximum Delivery  
300 ft swath**

	<b>Pyrethrin % desired fl oz/min</b>	<b>Pyrethrin % desired fl oz/min</b>
	<u>3.0%</u>	<u>0.5%</u>
<b>5 mph</b>	4.7	28.0
<b>10 mph</b>	9.4	56.0
<b>20 mph</b>	18.7	112.0

**HANDHELD AND BACKPACK EQUIPMENT:** When using equipment such as Whitmire Micro-Gen ULV equipment, apply up to 1.33 oz/acre, undiluted, in a 30 ft swath. Allow spray drift to penetrate dense foliage. Apply no more than 0.0025 lb pyrethrins/acre 5 times/week. When used in cold aerosol generators, mechanical or electronic foggers, or misting equipment that produce a fog with the majority of droplets in the 5 - 50 micron range, dilute with light mineral oil (specific gravity of approximately 0.8 at 60°F, boiling point: 500 - 840°F). N.F. grade oil is preferred.

**AERIAL APPLICATION (FIXED WING AND HELICOPTER):** To control adult mosquitoes and biting flies, apply up to 0.0025 lb of pyrethrins/acre with equipment designed and operated to produce a ULV spray application. Spray equipment must be adjusted so that the volume median diameter is < 40 microns (Dv 0.5 < 40 µm) and that 90% of the spray is contained in droplets < 115 microns (Dv 0.9 < 115 µm). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**A Prescription Treatment® brand insecticide from:**  
Whitmire Micro-Gen Research Laboratories, Inc.  
3568 Tree Court Industrial Blvd.  
St. Louis MO 63122-6682  
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