

499-452

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1/8



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

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

**JUL 28 2009**

Dear Ms. Hodge,

Subject: Label Amendment  
EPA Registration No. 499-452  
Product Name: ULD BP-100 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,

A handwritten signature in cursive script, appearing to read "Kevin Sweeney".

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

Enclosure

[ ] = alternate/optional text

### ULD® BP-100 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) generators, such as Whitmire Micro-Gen equipment, as well as thermal and conventional fogging or spraying equipment.

**KILLS:**

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

**FOR USE IN AND AROUND:**

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

[See inside booklet 4 for additional insects and use sites.]

**ACTIVE INGREDIENTS:**

Pyrethrins*, a botanical insecticide.....	1.00%
Piperonyl butoxide, technical** .....	2.00%
n-Octyl bicycloheptene dicarboximide*** .....	2.94%

**OTHER INGREDIENTS:**.....

Contains Petroleum Distillate	TOTAL: 100.00%
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- \* 1 gallon contains 0.066 lb of pyrethrins
- \*\* Consists of 1.6% (butylcarbityl) (6-propylpiperonyl) ether and 0.4% related compounds.
- \*\*\* MGK-264 Insecticide synergist

## KEEP OUT OF REACH OF CHILDREN CAUTION

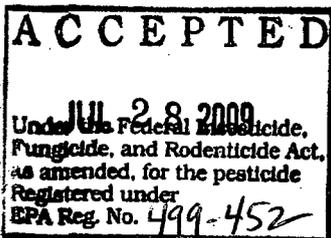
[See inside booklet for insects and use sites, First Aid and Precautionary Statements, Directions for Use and Storage and Disposal.]

EPA Reg. No. 499-452 • EPA Est. No. 499-MO-1

ULTRA LOW DOSAGE THROUGH MICRON GENERATION



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



3/8

**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 INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**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. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. 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 highly toxic to fish. Do not contaminate bodies of water when disposing of equipment rinsewater or wash waters.

**TERRESTRIAL USES:** Do not apply directly to water, 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 wash waters.

**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.**

4/8

#### 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 or 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 treatment 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 and birds, cover fish aquariums and turn off air pumps motor before application.
- In health care facilities, remove patients prior to treatment and thoroughly ventilate treated area for two hours before returning patients.

#### INDOOR USE

**SPACE APPLICATION: Flying Insects:** Flies, Gnats, Mosquitoes and Small Flying Moths. Use full strength or dilute product as desired according to dilution table listed below. Close doors, windows and shut off all ventilating equipment. Apply as space spray using a mechanical aerosol generator (no droplets > 50 microns in diameter and 80% < 30 microns) apply undiluted product at a dosage rate of approx. 1 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. Direct spray toward upper areas of room. 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.

**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>
0.50	1 Part Conc. to 1 Part Oil	1 fl oz
0.30	3 Part Conc. to 7 Parts Oil	1 - 2 fl oz
0.15	3 Part Conc. to 17 Parts Oil	1 - 2 fl oz

**SPACE SPRAY & DIRECTED SPRAY APPLICATION - Crawling Insects:** Ants, Beetles, Earwigs, Roaches, Silverfish, Spiders and Water Bugs. Kills insects in harborage situations. Use product full strength or diluted as desired and apply through equipment which can deliver a pin stream spray. Direct a pin stream 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. Apply as space spray using a mechanical aerosol generator (no droplets > 50 microns in diameter and 80% < 30 microns) apply undiluted product at the rate of 1 fl oz/1,000 ft<sup>3</sup> of space. Close doors, windows and shut off all ventilating equipment before application. Leave room closed for at least 1 hr after application. Do not remain in treated areas and ventilate thoroughly before occupants are allowed to reenter. Reapply once/day if retreatment is necessary.

**FEDERALLY INSPECTED MEAT & POULTRY ESTABLISHMENTS:** Ants, Earwigs, Flies, Gnats, Mosquitoes, Roaches, Silverfish, Small Flying Moths, Spiders and Water Bugs. Apply as a space or directed contact spray in establishments operating under the Federal Meat, Poultry, Shell Egg Grading, and Egg Products Inspection Program. Do not apply while food processing is underway. All food processing surfaces and equipment should be covered or washed with an effective cleaning compound followed by a potable water rinse after application and before processing resumes. Close doors, windows and shut off all ventilating equipment prior to application. When using ULV (Ultra Low Volume) equipment, such as Whitmire Micro-Gen ULD fogging equipment, adjust it to deliver aerosol droplets  $\geq$  30 microns and apply 1 fl oz/1,000 ft<sup>3</sup> of space. Leave room closed for at least 1 hr after application and ventilate 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 set up and operating pressures. Place the tip of the applicator at or into the crack and crevice to be treated. Apply product in short bursts while keeping tip in position. Allow the air stream to push insecticide deep into

5/8

voids. Reapply once/day if retreatment is necessary. Avoid applying to the point of runoff or drip. Ventilate thoroughly before occupants are allowed to reenter.

**LINEAR APPLICATION ALONG BASEBOARDS, TRIM MOLDING, OTHER CRACK & CREVICES AND DEEP 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 approximately 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 to kill flies, mosquitoes, and gnats 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.  $\leq 5$  mph.

**HANDHELD EQUIPMENT:** When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of 4 fl 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 Directions for Use.

**FOR USE ON ANIMALS**

Dilute 1 part concentrate to 1 part oil and mix well. To control gnats horn flies, houseflies, mosquitoes and around beef, dairy cattle and horses, apply a light mist sufficient to wet the tips of the hair. To control deer flies, horse flies and stable flies on beef, dairy cattle and horses, apply 2 fl oz/adult animal, sufficient to wet the hair but not to soak the hide. To control the motile stages of blood sucking lice on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use  $\leq 2$  fl oz/animal and repeat every 2 - 3 weeks 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.

**STORAGE:** Store in a secured dry storage area.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site in accordance with 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:

**[( $\leq 5$  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  $\frac{1}{4}$  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  $\frac{1}{4}$  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!**

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

**INDOOR:**

- Animal Areas & Quarters
- Auditoriums
- Bakeries
- Beverage Plants
- Boats
- Bottling Plants
- Brandy Storage Warehouses

- Buildings
- Buses
- Cabins
- Canneries
- Cattle Barns
- Churches
- Closets
- Condominiums
- Communication Centers

- Correctional Facilities
- Dairy & Livestock Barns
- Dried Fruit Processing Plants
- Drains & Sewers
- Dried Fruit Warehouses
- Drugstores
- Dumpsters
- Dwellings

Master Label

v9.0.5 (7/09)

Egg Processing Plants  
 Factories  
 Flour Mills  
 Food Handling Establishments  
 Food Processing Plants  
 Freight Containers  
 Fruit Packing Sheds  
 Garbage Cans  
 Garbage Compactors  
 Goat Houses  
 Grain Elevators  
 Grain Mills  
 Grain Handling Equipment  
 Granaries  
 Homes  
 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  
 Museums  
 Mushroom Processing Plants

Nursing Homes  
 Offices  
 Office Buildings  
 Passenger Rail Cars  
 Peanut Processing Plant  
 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  
 Shade Houses  
 Ships  
 Shipholds  
 Stables  
 Stable Bins  
 Stored Food in Multiwall Paper or Cloth  
 Bags  
 Stored Seed Warehouses  
 Stores  
 Supermarkets  
 Swine Houses  
 Textile Mills & Warehouses  
 Theaters  
 Tobacco Plants  
 Tobacco Warehouses  
 Townhouses

Trains  
 Transportation Equipment  
 Trucks  
 Truck Trailers  
 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  
 Blow Flies  
 Black Flies  
 Bottle Flies  
 Cheese Skippers  
 Deer Flies  
 Face Flies  
 Flies  
 Fungus Gnats  
 Horse Flies  
 House Flies  
 Horn Flies  
 Hornets  
 Mushroom Flies  
 Stable Flies  
 Skipper Flies  
 Vinegar Flies  
 Yellowjackets  
 Thrips

Whiteflies

**GRAIN BORERS:**

Larger Grain Borers  
 Lesser Grain Borers

**CRAWLING INSECTS:**

Bed Bugs  
 Book Lice  
 Chiggers  
 Crickets  
 Scorpions  
 Cabbage Loopers  
 Cabbage Worms  
 Centipedes  
 Chrysanthemum Leaf Miners  
 Fire Ants  
 Firebrats  
 Grasshoppers  
 Mealy Bugs  
 Millipedes  
 Pillbugs  
 Palmetto Bugs

Sowbugs

Vegetable Leaf Miners

**FLEAS & TICKS:**

Brown Dog Ticks  
 Fleas  
 Sheep Ticks  
 Spinosa Ear Ticks  
 Ticks

**SPIDERS & MITES:**

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

**LICE:**

Cattle Lice  
 Moulting Stages of Yellow Lice & Sucking  
 Blue Lice

**WORMS:**

Master Label

v9.0.5 (7/09)

Dark Mealworms  
Lesser Mealworms  
Yellow Mealworms

Foreign Grain Beetles  
Hairy Fungus Beetles  
Hairy Spider Beetles  
Hide Beetles/Fungus Beetle  
Ground Beetles  
Khapra Beetles  
Longheaded Flour Beetles  
Large Black Flour Beetles  
Murmidius Beetles  
Merchants Grain Beetles  
Mexican Grain Beetles  
Red Flour Beetles  
Red Horned Grain Beetles  
Rusty Grain Beetles  
Saw-Tooth Grain Beetles  
Slenderhorned Flour Beetles  
Smalleyed Flour Beetles  
Spider Beetles  
Squarenecked Grain Beetles  
Two Banded Beetles

Trogoderma Beetles  
White Marked Spider Beetles

**BEETLES:**

American Black Flour Beetles  
Black Fungus Beetles  
Black Carpet Beetles  
  
Broadhorned Flour Beetles  
Brown Spider Beetles  
Carpet Beetles  
Catorama Beetles  
Cereal Beetles  
Corn Sap Beetles  
Drugstore Beetles  
Darkling Beetles  
Dried Fruit Beetles  
Dermestid Beetles  
Depressed Flour Beetles  
Flat Grain Beetles

**WEEVILS:**

Bean Weevils  
Broadnosed Grain Weevils  
Coffee Bean Weevils  
Maize Weevils

**MOTHS:**

Almond Moths  
Chocolate Moths  
Clothes Moths  
Cocoa Bean Moths  
European Grain Moths  
Mediterranean Moths  
Pink Scavenger Caterpillars  
Rice 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 or 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 1.0% dilution.

**RESTRICTIONS:** Do not apply more than 0.2 lb Pyrethrins A/acre/year and 2.0 lb. Piperonyl Butoxide A/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.  $\leq 5$  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 concentrate 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
1.00	Undiluted	4.8 fl oz
0.50	1 Part Conc. To 1 Part Oil	9.7 fl oz
0.30	3 Part Conc. To 7 Parts Oil	16.1 fl oz
0.25	1 Part Conc. To 3 Parts Oil	19.4 fl oz
0.15	3 Part Conc. To 17 Parts Oil	32.2 fl oz
0.10	1 Part Conc. To 9 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 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

8/8

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 of pyrethrins/acre while the machine is traveling 5 - 20 mph. The nozzle should be positioned 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 of pyrethrins/acre each day.

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

	<b>Pyrethrin % desired oz/min</b>	<b>Pyrethrin % desired oz/min</b>
	<u>1.0%</u>	<u>0.5%</u>
5 mph	14.00	28.00
10 mph	28.00	56.00
20 mph	56.00	112.00

**HANDHELD AND BACKPACK EQUIPMENT:** When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of up to 1.33 fl oz/acre, undiluted, in a 30 ft swath. Allow spray drift to penetrate dense foliage. Apply at 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). An 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 < 115µm). The effects of flight speed and, for non-rotary nozzles, nozzle angel 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 an 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  
Questions? Call 1-800-777-8570  
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