

499-453

09/07/2007

1/11



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

SEP - 7 2007

Dear Ms. Hodge,

Subject: Revised Finished Labeling to Add Statements Consistent with PR Notice 2005-1
EPA Registration No. 499-453
Product Name: ULD BP-50 Insecticide
Submission dated March 20, 2007

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, is acceptable subject to the comments listed below:

1. Page 5 – complete label
 - a. Specify the reapplication interval for handheld equipment.

OUTDOOR USE-Mosquito Control & PR Notice 2005-1

2. Page 8 – Complete label
 - Truck mounted application.** The table requested in the Agency's letter of February 16, 2007 has been added but requires revision.
 - a. In the paragraph before the table:
 - i. Change "ULD" to read "ULV".
 - ii. You state an application rate of 15 oz./minute as the maximum rate but the new table states much higher rates. The label also states: "Keep vehicle speeds at 5 mph" but 5-20 mph is listed in the table. Revise this section in order for an applicator to properly apply your product.

Please note that the availability of EPA's reregistration eligibility documents (REDs) for products containing pyrethrins and/or piperonyl butoxide. The availability of the pyrethrins RED was published in the Federal Register (FR) on July 26, 2006 (Vol.71 No.143 pg. 42387). The availability of the piperonyl butoxide RED was also published in the FR on July 26, 2006 (Vol. 71, No. 143 pg. 42385). Additional data or labeling changes may be required for products containing pyrethrins and/or piperonyl butoxide.

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A stamped copy of the label is enclosed for your records. You must submit three copies of the revised finished labeling within 60 days of the receipt of this letter. If you have any questions, please contact Kevin Sweeney, at (703) 305-5063. Thank you for your cooperation in this matter.

Sincerely,

for Kevin Sweeney

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

Enclosure

ULD® BP-50 Insecticide

3/11

Designed for Use in Edible Product Areas of Official Establishments Operating Under the Federal Meat, Poultry, Shell Egg Grading and Egg Products Inspection Programs and in Other Food Processing Plants

KILLS: Ants, Angoumois Grain Moths, Cockroaches, Flies, Granary Weevils, Indian Meal Moths, Mites, Mosquitoes, Rice Weevils and Spiders

FOR USE IN AND AROUND: Animal Areas & Quarters, Bakeries, Cattle Barns, Dairy & Livestock Barns, Egg Processing Plants, Flood Handling Establishments, Food Processing Plants, Homes, Industrial Installations, Meat Packing Plants, Milk Rooms, Nursing Homes, Office Buildings, Poultry Houses, Poultry Processing Plants and Restaurants

See complete label for additional insects and use sites.

ACTIVE INGREDIENT:

Pyrethrins, a botanical insecticide.....	0.5%
Piperonyl butoxide, technical*.....	5.0%

OTHER INGREDIENTS:	<u>94.5%</u>
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Contains petroleum distillate	TOTAL: 100.0%
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- Equivalent to 4.0% (butylcarbityl)(6-propylpiperonyl) ether and 1.0% related compounds
- 1 gallon contains 0.033 lbs. of pyrethrins

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for First Aid, Precautionary Statements, and Directions for Use.

EPA Reg. No. 499-453 • EPA Est. No. 499-MO-1

ULTRA LOW DOSAGE THROUGH MICRON GENERATION

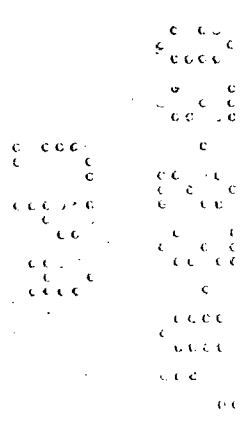
NET CONTENTS:



WHITMIRE MICRO-GEN

RESEARCH LABORATORIES, INC.
800-777-8570 www.wmmg.com

**ACCEPTED
with COMMENTS
in EPA Letter Dated
SEP - 7, 2007**
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
499-453



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 rinsate or washwaters.

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 bodies of water when disposing of equipment rinsates or washwaters.

See complete label for additional statements regarding Wide-Area Mosquito Control Applications.

PHYSICAL OR 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 full label for complete Directions for Use.

Dependent upon insects to be killed and the area to be treated, this product may be applied through mechanical aerosol or ULV generators, such as Whitmire Micro-Gen equipment, as well as thermal and conventional fogging or spraying equipment.

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 approved waste disposal facility.

CONTAINER DISPOSAL:

1 Gallon or 2.5 Gallon Bottles - Empty container by using the product in accordance with the label directions. Do not reuse this container! Place empty 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!**

55 Gallon Drum - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.)

A Prescription Treatment® brand insecticide from:

Whitmire Micro-Gen Research Laboratories, Inc.

3568 Tree Court Industrial Blvd.

St. Louis MO 63122-6682

www.wmmg.com

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ULD® BP-50 Insecticide

5/11

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See page 4 for additional insects and use sites.

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OTHER INGREDIENTS:	94.5%
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Contains petroleum distillate	TOTAL: 100.0%
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- Equivalent to 4.0% (butylcarbityl)(6-propylpiperonyl) ether and 1.0% related compounds
- 1 gallon contains 0.033 lbs of pyrethrins

KEEP OUT OF REACH OF CHILDREN CAUTION

See page 2 for First Aid, Precautionary Statements and Directions for Use.

EPA Reg. No. 499-453 • EPA Est. No. 499-MO-1

ULTRA LOW DOSAGE THROUGH MICRON GENERATION

NET CONTENTS:



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.
800-777-8570 www.wmmg.com

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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, 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 bodies of water when disposing of equipment rinsate or 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 OR 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.

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.
- All food processing surfaces and equipment in the treatment area should be covered or washed with an effective cleaning compound followed by a potable water rinse after use of this product.
- Remove pets, birds, cover fish aquariums and turn off air pump motor before application.

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

Dependent upon insects to be killed and the area to be treated, this product may be applied through mechanical aerosol or ULV generators, such as Whitmire Micro-Gen equipment, as well as thermal and conventional fogging or spraying equipment.

SPACE SPRAY - Indoor: For control of accessible, exposed stages of flies, including fruit flies, mosquitoes, small flying moths, gnats, wasps, hornets, cheese skippers and these 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, meal worms and grain mites. Close windows and doors and shut off ventilating systems. Use a fogger or vaporizer adjusted to deliver an aerosol spray (no droplets over 50 microns in diameter and 80% less than 30 microns). Apply at the rate of 1 oz/1,000 ft³ of space. Direct the spray toward the ceiling and upper corners of the area behind obstructions. For best control of wasps and hornets, apply directly to nests in the evening when the insects have returned to nests. Keep the area closed for at least 15 min. Vacate the treated area and ventilate before re-occupying. Reapply once/day if retreatment is necessary.

SPACE AND CONTACT SPRAY: Use full strength or dilute as desired according to dilution table and apply through equipment which can deliver a pin stream spray. For control of accessible exposed stages of silverfish, crickets, roaches, spiders, scorpions, clover mites, cheese mites, earwigs and ants, first using equipment, which can deliver a pin stream spray, direct spray in all cracks and crevices in woodwork, walls, floors, underneath sinks, behind pipes and in all places where these insects are known to seek shelter. Contact as many insects as possible, spray directly all ant trails. Do not allow spray to contact stored food. Then, shutting all doors, windows and shutting off all ventilating systems proceed with space spraying directions as given above. Use a dosage rate of 1 oz/1,000 ft³ of space or if diluted 1 - 2 oz/1,000ft³. Keep the area closed for at least 15 min. Vacate the treated area and ventilate before re-occupying. Reapply once/day if retreatment is necessary.

DILUTION: Use a white mineral oil conforming to regulation 21 CFR 121.2589(b) or an odorless light petroleum hydrocarbon conforming to 121.1182, 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-50 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Application Rate Per 1,000 cu. ft.
0.30	3 Part Conc. to 2 Parts Oil	1-2 oz.
0.15	3 Part Conc. to 7 Parts Oil	1-2 oz.

SPOT APPLICATION: With equipment designed for deep void Ultra Low Volume (ULV) applications, follow the manufacturer's recommendations for proper equipment setup 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 voids. Reapply once/day if retreatment is necessary. Avoid applying to the point of runoff or drip. Ventilate thoroughly before occupants are allowed to re-enter.

LINEAR APPLICATION ALONG BASEBOARDS, TRIM MOLDING, OTHER CRACK & CREVICES AND DEEP VOIDS, ETC.: 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 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 re-enter.

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 (75°F or less) and the wind velocity is approximately 5 mph or less.

HANDHELD EQUIPMENT: When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of 4.0 oz./acre. Allow spray drift to penetrate foliage. Repeat application as required for control.

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

FOR USE ON ANIMALS

To protect beef and dairy cattle and horses from horn flies, houseflies, mosquitoes and gnats, apply a light mist sufficient to wet the tips of the hair. To control stable flies, horse flies and deer flies on beef and dairy cattle and horses, apply 2 oz./adult animal, sufficient to wet the hair but not to soak the hide. **Do not use Dogs or Cats.**

Use Restrictions:

- Do not apply more than 1 time per 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.

IN MUSHROOM PROCESSING

In packing and canning plants, use at a rate of 1 oz to 2,000 ft³ of space.

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:

1 Gallon or 2.5 Gallon Bottles - Empty container by using the product in accordance with the label directions. Do not reuse this container! Place empty 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!**

55 Gallon Drum - Triple rinse (or equivalent). Then offer for recycling, reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.)

In addition to sites listed on the front panel, ULD BP-50 Insecticide 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
Egg Processing Plants
Factories
Flour Mills
Food Handling Establishments
Food Processing Plants
Freight Containers
Fruit Packing Shed
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 Plants
Peanut Storage Warehouses
Planes
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 Multiwalled 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

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ULD BP-50 Insecticide is also effective against the following insects when used according to label directions:

FLYING INSECTS:

- Barn Flies
- Bees
- Blow Flies
- Black Flies
- Bottle Flies
- Cheese Skippers
- Deer Flies
- Face Flies
- Flies
- Fruit Flies
- Fungus Gnats
- Horn Flies
- Horse Flies
- Hornets
- House Flies
- Gnats
- Mosquitoes
- Mushroom Flies
- Stable Flies
- Skipper Flies
- Vinegar Flies
- Wasps
- Yellow Jackets

WORMS:

- Dark Mealworms
- Lesser Mealworms
- Yellow Mealworms

FLEAS AND TICKS:

- Brown Dog Ticks
- Fleas
- Sheep Ticks
- Spinos Ear Ticks
- Ticks

BETLES:

- American Black Flour Beetles
- Black Fungus Beetles
- Black Carpet Beetles
- Brown Spider Beetles
- Broadhorned Flour Beetles
- Confused Flour Beetles
- Cigarette Beetle
- Carpet Beetles
- Cereal Beetles

- Corn Sap Beetles
- Catorama Beetles
- Drugstore Beetles
- Dried Fruit Beetles
- Dermestid Beetles
- Depressed Flour 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-Tooth Grain Beetles
- Spider Beetles
- Slenderhorned Flour Beetles
- Smalleyed Flour Beetles
- Squarenecked Grain Beetles
- Spider Beetle
- Two Banded Beetles
- Trogoderma Beetles
- White Marked Spider Beetles

CRAWLING INSECTS:

- Ants
- Bedbugs
- Centipedes
- Chiggers
- Cockroaches
- Crickets
- Earwigs
- Firebrats
- Palmetto Bugs
- Fire Ants
- Grasshoppers
- Millipedes
- Pill Bugs
- Scorpions

- Sowbugs
- Silverfish
- Water Bugs

SPIDERS & MITES:

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

WEEVILS:

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

MOTHS:

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

GRAIN BORERS:

- Larger Grain Borers
- Lesser Grain Borers

GREENHOUSE & HORTICULTURAL

PESTS:

- Aphids
- Cabbage Loopers
- Cabbage Worms
- Chrysanthemum Leaf Miners
- Mealy Bugs
- Thrips
- Vegetable Leaf Miners

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 0.1% to 0.5% rate

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 (75°F or less) and the wind velocity is approximately 5 mph or less.

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-50 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Oz. Of Diluted Product Delivers 0.0025 lbs. Pyrethrin/acre
0.50%	1 Part Conc. to 1 Part Oil	19.4 oz.
0.30%	6 Part Conc. to 7 Parts Oil	32.2 oz.
0.25%	1 Part Conc. To 4 Parts Oil	38.8 oz.
0.15%	6 Part Conc. to 17 Parts Oil	64.4 oz.
0.10%	1 Part Conc. To 9 Parts Oil	97.0 oz.

BP-50 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. BP-50 may be used over agricultural crops. For best results, apply when temperature is at least 50°F, and when meteorological conditions create a temperature inversion and wind speed is greater than 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 260 applications/year. No more than 10 applications should be made to a site in any 2 wks. 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 APPLICATION: To control adult mosquitoes and biting flies, apply up to 0.0025 lbs of pyrethrins/acre. Spray equipment must be adjusted so that the volume median diameter is less than 20 microns (Dv 0.5 < 20 µm) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50µm). 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 at the rate of up to 0.0025 lbs/acre while the machine is traveling 10 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 lbs of pyrethrins/acre (use a 300-ft swath width for acreage calculations). When using Whitmire Micro-Gen or similar truck mounted ULD equipment, spray at a dosage rate of up to 15 oz/min from a location up-wind of the areas where insects are to be controlled. Keep speed of vehicle to approximately 5 mph. Figure application travel path for a coverage of a 300 ft swath. Apply no more than 0.0025 lbs/acre/day.

FLOW RATE
For Maximum Delivery
300 ft swath

	Pyrethrin % desired oz/min	Pyrethrin % desired oz/min
	<u>0.1%</u>	<u>0.5%</u>
5 mph	138	27.6
10 mph	69	13.8
20 mph	34.5	6.9

HANDHELD EQUIPMENT OR BACKPACK: When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of up to 8.0 oz., undiluted, per acre in a 30 ft. swath. Allow spray drift to penetrate dense foliage. 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, BP-50 should be diluted 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 lbs 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 less than 40 microns ($Dv\ 0.5 < 40\ \mu m$) and that 90% of the spray is contained in droplets smaller than 115 microns ($Dv\ 0.9 < 115\ \mu m$). 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.

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