499-452 09/06/2007 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 - 6 2007

Dear Ms. Hodge,

Subject: Revised Finished Labeling to Add Statements Consistent with PR Notice 2005-1
EPA Registration No. 499-452
Product Name: ULD BP-100 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 6 – 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. The revised label does include the requested table but includes a dilution range of 0.1 to 1% while at the beginning of the mosquito control section the use dilutions are 0.1 to 0.5%.
   b. 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.

3. Page 9 – Complete Label
   a. **"Handheld and Backpack Equipment"** The paragraph was revised as directed by the Agency's letter of February 16, 2007 but the droplet size range was removed "...that

produce a fog with the majority of droplets in the 5-50 μm range". Please specify a droplet size range for the sprayers mentioned in this paragraph.

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.

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,

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

Enclosure

3|11

ULD® BP-100
Insecticide

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:

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

See complete label for additional insects and use sites.

ACTIVE INGREDIENT:

Pyrethrins, *a botanical insecticide*	1.00%
Piperonyl butoxide, technical*	2.00%
n-Octyl bicycloheptene dicarboximide**	2.94%
OTHER INGREDIENTS:	94.06%
Contains Petroleum Distillate	TOTAL: 100.00%

* Consists of 1.6% (butylcarbityl) (6-propylpiperonyl) ether and 0.4% related compounds.

** MGK-264 insecticide synergist.

*** 1 gallon contains 0.066 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. 499-452 • 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 - 6 2007
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.
499-452

4/11

ULD® BP-100
Insecticide

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 toxic to fish. Do not contaminate bodies of water when disposing of equipment rinsate or wash waters.

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 wash waters.

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.

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 the label directions or at an approved waste disposal facility.

CONTAINER DISPOSAL: 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!**

[*Alternate language for 55 Gallon Drum:* Triple rinse (or equivalent). Then offer for recycling, reconditioning or puncture and dispose of in 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
© 2007 Whitmire Micro-Gen Research Laboratories, Inc.

5/11

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 page 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:	94.06%
Contains Petroleum Distillate	TOTAL: 100.00%

* Consists of 1.6% (butylcarbityl) (6-propylpiperonyl) ether and 0.4% related compounds.
** MGK-264 insecticide synergist.
*** 1 gallon contains 0.066 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. 499-452 • EPA Est. No. 499-MO-1

ULTRA LOW DOSAGE THROUGH MICRON GENERATION

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

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 rinstate 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.

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 over 50 microns in diameter and 80% less than 30 microns) apply undiluted product at a dosage rate of approximately 1 fl. oz. per 1,000 ft.^{3} of room space or, when applying diluted product, apply at the rate of 1 - 2 fl. oz. per 1,000 ft.^{3} 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 re-enter. 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 BP-100 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Application Rate Per 1,000 Ft.^{3}
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 over 50 microns in diameter and 80% less than 30 microns) apply undiluted product at the rate of 1oz. per 1,000 ft.^{3} 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 re-enter. 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, adjusts it to deliver aerosol droplets (30 microns or less) and apply 1oz./1,000 ft^3. of space. Leave room closed for at least 1 hour after application and ventilate before occupants are allowed to re-enter. 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 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: 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 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 oz./per acre. Figure application travel path for a coverage of a 50 ft swath. Allow spray drift to penetrate dense 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

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 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 2 oz or less per 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.
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 – 1 GALLON: Empty container by using 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 partially filled, call your local solid waste agency for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!
[*Alternate language for 55 Gallon Drum:* Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, or by other procedures approved by state and local authorities.]

In addition to sites listed on other panel, ULD BP-100 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 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

ULD BP-100 Insecticide 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
Spinos 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:
Dark Mealworms
Lesser Mealworms
Yellow Mealworms

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
Foreign Grain Beetles
Hairy Fungus Beetles
Hairy Spider Beetles
Hide BeetlesFungus 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

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 the 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-100 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Fluid Ounces Of Diluted Product Delivers 0.0025 lbs. Pyrethrin /acre
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.

BP-100 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-100 may be used over agricultural crops. For best results, apply when temperature is at least 50°F,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 : 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 < 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 at the rate of up to 0.0025 lbs. of pyrethrins/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 to15 oz./minute 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. of pyrethrins/acre each day.

FLOW RATE
For Maximum Delivery
300 ft swath

	Pyrethrin % desired oz/min 0.1%	Pyrethrin % desired oz/min 1%
5 mph	138	13.8
10 mph	69	6.9
20 mph	34.5	3.45

HANDHELD AND BACKPACK EQUIPMENT: When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of up to 4 oz/acre, undiluted, in a 30 ft. swath. Allow spray drift to penetrate dense foliage. Apply at no more than 0.0025 lbs. of pyrethrins/acre each day. When used in cold aerosol generators, mechanical or electronic foggers, or misting equipment, BP-100 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 µm) and that 90% of the spray is contained in droplets smaller than 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:
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