

499-452

6-20-2008

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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

JUN 20 2008

Dear Ms. Hodge,

Subject: Revised Finished Labeling
EPA Registration No. 499-452
Product Name: ULD BP-100 Insecticide
Submission dated September 18, 2007

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, is acceptable provided you make changes to the amended labeling before releasing the product for shipment:

1. Page 6 – complete label
 - a. Specify the reapplication interval for handheld equipment as instructed in the Agency's previous letter.

OUTDOOR USE-Mosquito Control & PR Notice 2005-1

2. Page 8 – Complete label
 - a. Outdoor Use-Mosquito Control
 - i. The first statement should read: "Use at 0.1% to 0.5% dilution".
 - b. Mixture Table
 - i. In order to deliver 0.0025 lbs pyrethrins per acre the applicator must deliver 4.85 fl oz of the product per acre.
 - ii. According to the "mixture rate" in the first table a 0.1% dilution is prepared by mixing 1 part concentrate to 9 parts oil. In order to deliver the maximum label application rate of 0.0025 lbs pyrethrins/acre an applicator must spray $4.85 \times 10 = 48.5$ fl. oz. of the 0.1% dilution per acre. The flow rates listed in the 0.1% and 0.5% tables decrease as the amount of acreage to be sprayed increases. These values are incorrect in the existing table because you more dilution per minutes must be sprayed as truck speed increases to deliver the same amount of pyrethrins per acre.

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- iii. The flow rate table at the bottom of the page states that an applicator may spray 138 fl oz of the 0.1% dilution at a truck speed of 5 mph in order to deliver 0.0025 lbs. pyrethrins/acre.

The calculation used to arrive at this value and others for the 0.1% dilution should be as follows:

- 1 mile = 5,280 feet. 1 acre = 43,560 square feet. The swath width is 300 feet.
- $5,280 \times 300 = 1,584,000$ square feet sprayed per mile of truck travel. This is equivalent to 36.36 acres sprayed per mile ($1,584,000/43,560$)
- A truck spraying an area with a swath width of 300 feet that travels 5 mph will spray 181.8 acres in one hour. This is equivalent to spraying about 3.03 acres a minute and application of 0.0075 lbs pyrethrins/minute is required to apply 0.0025 lbs. pyrethrins/acre.
- Therefore, in order to apply 0.0025 lbs pyrethrins per acre at a truck speed of 5 mph the volume of 0.1% dilution must equal 146.95 fl oz/minute or about 1.15 gallons/minute. At 10 mph the applicator will spray 6.06 acres/minute, which requires 293.9 fl oz of the 0.1% dilution to be delivered per minute. At 20 mph 12.1 acres will be sprayed per minute, which requires 587.8 fl. oz/minute. As the number of acres to be sprayed per minute increases, the number of fluid ounces of end-use dilution must also increase in order to treat the area at the same rate per acre. The table must be revised to reflect this requirement. You should note that it will be difficult to market the 0.1% dilution on your label for mosquito control because there probably is not a ULV machine on the market that can spray at these high volumes while attaining the acceptable droplet size spectrum.
- 0.5% dilution. In order to deliver 0.0025 lbs pyrethrins/acre you must spray 4.84 fl oz of product per acre. As calculated in your mixture table the amount of 1:1 dilution (0.5%) that delivers 0.0025 lbs pyrethrins equals $2 \times 4.84 = 9.68$ fl oz = 9.7 oz listed in the table. Therefore, every acre treated at 0.0025 lbs pyrethrins per acre requires 9.7 oz of the 0.5% dilution.
- As calculated above a truck speed of 5 mph sprays 3.03 acres/minute; 10 mph sprays 6.06 acres per minute and at 20 mph the truck will spray 12.1 acres per minute. Therefore, at 5 mph the flow rate equals 29.39 fl. oz/min.; at 10 mph 58.78 fl. oz/min and at 20 mph 117.56 fl. oz/min. Please revise the table accordingly and round the values to the nearest tenth of a fluid ounce.

3. Based on the calculations above I suggest you revise your product mixture table to include more concentrated solutions. A minimum of 0.5% pyrethrins is recommended and I suggest values be provided for application of the undiluted product.
4. Add the restriction required by the Pyrethrins RED:

“Do not apply more than 0.2 lbs pyrethrins ai/acre/year 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.”

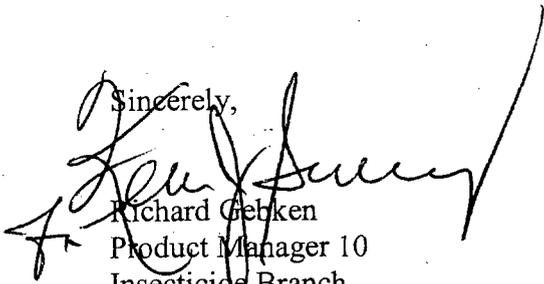
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5. Change the maximum number of applications per year at the 0.0025lbs/acre rate to 80 applications per year at any site based on the limit of 0.2 lbs. pyrethrins ai/acre/year at any site.

6. Add this restriction as required by the piperonyl butoxide RED:
"Do not apply more than 2.0 lbs ai/acre/year 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."

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) while the availability of the piperonyl butoxide RED was also published in the Federal Register (FR) on July 26, 2006 (Vol. 71, No. 143 pg. 42385). The availability of the N-octyl bicycloheptene dicarboximide (MGK-264) RED was also published in the Federal Register on July 26, 2006 (Volume 71, Number 143 pg. 42381). Additional data or labeling changes may be required for products containing pyrethrins and/or piperonyl butoxide and/or MGK 264. Please note that the risk assessments conducted in support of the MGK 264 RED did not evaluate the wide-area mosquito control use pattern.

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

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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, <i>a botanical insecticide</i>	1.00%
Piperonyl butoxide, technical*.....	2.00%
n-Octyl bicycloheptene dicarboximide**.....	2.94%
OTHER INGREDIENTS:	<u>94.06%</u>
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

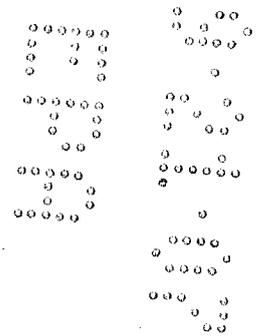
NET CONTENTS:



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

**ACCEPTED
with COMMENTS
In EPA Letter Dated
JUN 20 2008**

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
499-452**



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.

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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

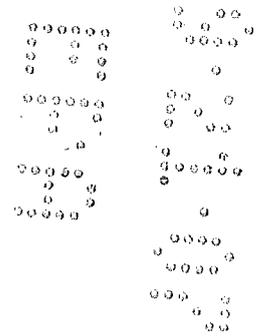
See page 2 for First Aid, Precautionary Statements and Directions for Use.

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 rinse water 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.

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- 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, adjust 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.

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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

Complete (Full) Label

v9.0 (9/07)

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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
 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:

Dark Mealworms
 Lesser Mealworms
 Yellow Mealworms

BETLES:

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 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

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

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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 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 lbs. 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 of up to 138 oz./minute from a location up-wind of the areas where insects are to be controlled. Keep speed of vehicle to approximately 5 - 20 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	Pyrethrin % desired oz/min
	<u>0.1%</u>	<u>0.5%</u>
5 mph	138	13.8
10 mph	69	6.9
20 mph	34.5	3.45

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HANDHELD AND BACKPACK EQUIPMENT: When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of up to 1.33 oz/acre, undiluted, in a 30 ft. swath. Allow spray drift to penetrate dense foliage. [Apply at no more than 0.0025 lbs. 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, 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 ($D_v 0.5 < 40 \mu\text{m}$) and that 90% of the spray is contained in droplets smaller than 115 microns ($D_v 0.9 < 115 \mu\text{m}$). 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:

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