

499-453

02/16/2007

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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

**FEB 16 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 February 16, 2006

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:

**OUTDOOR USE-Mosquito Control & PR Notice 2005-1**

1. Pages 7 & 8 – Complete Label

a. **Modify the statement:** “For best results, apply when meteorological conditions create a temperature inversion and wind speed does not exceed 10 miles per hour.” to read “For best results, apply when meteorological conditions create a temperature inversion and wind speed is greater than 1 mph.”

b. **State a minimum temperature** for application. We suggest 50<sup>0</sup> F.

c. **State a yearly limit on the number of applications and amount of active ingredient applied per year.** The label states one application per day as proposed or 365 applications per year with a limit of 0.0025 lbs per acre per day. (Please be aware that this is equivalent to a maximum of 0.9125 lbs pyrethrins per acre per year for the purpose of risk assessment.)

d. **Either delete or move the paragraph** “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 µm range, BP-50 should be diluted with light mineral oil (specific gravity of approximately 0.8 at 60<sup>0</sup> F, boiling point: 500-840<sup>0</sup> F). A N.F. grade oil is preferred.” to the heading on page 8 “**Handheld and Backpack Equipment**”. State a swath width in the Handheld and Backpack Equipment directions.

e. **GROUND ULV.** PR Notice 2005-1 clearly states that sections on Ground ULV and Aerial Application droplet size determinations should be on the label. The language on your label only includes the Ground ULV language with droplet sizes that are unlikely

to be efficacious with Ground ULV applications. The droplet sizes for Ground ULV are not supported by your efficacy data. The 50 micron VMD value proposed is unlikely to kill mosquitoes. We suggest a VMD in the 30 micron size range. The 100 micron  $D_v 0.9$  value results in too many large drops and low levels of efficacy. We suggest a  $D_v 0.9$  droplet value in the 40-50 micron range.

Revise as follows:

**“Ground-based applications:** Spray equipment must be adjusted so that volume median diameter is less [  $X =$  value provided by Whitmire] microns ( $D_v 0.5 < X \mu\text{m}$ ) and that 90% of the spray is contained in droplets smaller than [  $Y =$  value to be provided by Whitmire] microns ( $D_v 0.9 < Y \mu\text{m}$ ). 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.”

f. **Aerial Application.** The droplet size language from PR Notice 2005-1 is not included. Based on your proposed label, a VMD ( $D_v 0.5 < 50$  microns) and a  $D_v 0.9 < 100$  microns appears appropriate. Add the following:

**“Aerial Application:** Spray equipment must be adjusted so that the volume median diameter produced is less than [  $A =$  value to be provided by Whitmire] microns ( $D_v 0.5 < A \mu\text{m}$ ) and that 90% of the spray is contained in droplets smaller than [  $B =$  value to be provided by Whitmire] microns ( $D_v 0.9 < B \mu\text{m}$ ). 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.”

g. **Truck mounted application.** As mentioned in bullet 5i. (5g in letter) of our letter dated January 10, 2006, EPA asked you to add “...a table to the mosquito control directions providing examples of how much product to add to a specified amount of diluent to achieve the desired dilution, together with directives indicating the volume of dilution to apply per acre (flow rate) at specific truck speeds.” The revised label does not include the requested table but describes the dilution of product without mention of flow rate at the truck speed of 10 mph, except to say that the applicator may spray at a volume up to 15 ounces per minute to deliver a maximum application rate of 0.0025 lbs./acre. The directions also mention that the flow rate may vary as long as the 0.0025 lbs./acre pyrethrins application rate is not exceeded using a 300 feet swath calculation.

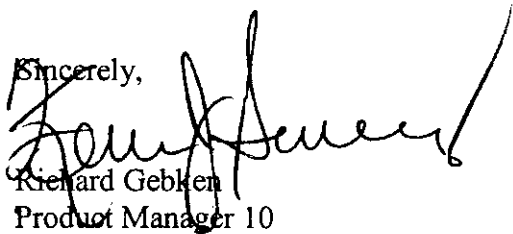
Revise this section of the label to include the table. The flow rate of the sprayer pump should be stated for the corresponding vehicle speed. We suggest 5 mph

increments i.e., 5 mph, 10 mph, 15 mph, and 20 mph. The flow rate must increase as speed increases to deliver the prescribed application rate of 0.0025 lbs. pyrethrins/acre. The table should include the pyrethrins dilutions stated on page 7.

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 five 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

# ULD® BP-50 Insecticide

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, Food 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:**..... 94.5%

Contains petroleum distillate TOTAL: 100.0%

- 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  
**FEB 16 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 minutes. 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 minutes. Remove contact lenses, if present, after the first 5 minutes, 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 or call 1-800-CLEANUP 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.)

[CONTAINER LABEL – BACK PANEL]

BP-50 v.7.0-1/06 6/13

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](http://www.wmmg.com)  
© 2006 Whitmire Micro-Gen Research Laboratories, Inc.

7/13

# ULD® BP-50 Insecticide

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

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**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 page 4 for additional insects and use sites.

**ACTIVE INGREDIENT:**

Pyrethrins, a botanical insecticide.....0.5%

Piperonyl butoxide, technical\*.....5.0%

**OTHER INGREDIENTS:**.....94.5%

Contains petroleum distillate TOTAL: 100.0%

- 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.wrmg.com](http://www.wrmg.com)

**FIRST AID**

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**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 minutes. 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 minutes. Remove contact lenses, if present, after the first 5 minutes, 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 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 ounce per 1,000 cubic feet 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 minutes. 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 ounce per 1,000 cubic feet of space or if diluted 1-2 ounces per 1,000 cubic feet. Keep the area closed for at least 15 minutes. 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.

<u>Pyrethrin % Desired</u>	<u>Mixture Rate</u>	<u>Application Rate Per 1,000 cu. ft.</u>
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 one (1) foot per second. 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 five (5) MPH or less.

**HANDHELD EQUIPMENT:** When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of 4.0 oz. per 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.

## 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 five (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 meteorological conditions create a temperature inversion and wind speed does not exceed ten (10) miles per hour. The application should be made so the wind will carry the insecticidal fog into the area being treated. Do not re-treat a site more than once in 24 hours; no more than 14 applications should be made to a site in any 2 weeks. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

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.

#### GROUND-BASED AND AERIAL APPLICATION

To control adult mosquitoes and biting flies, apply up to 0.0025 pounds of pyrethrins per acre (use a 300-foot swath width for acreage calculations).

Spray equipment must be adjusted so that the volume median diameter is less than 50 microns ( $Dv\ 0.5 < 50\ \mu m$ ) and that 90% of the spray is contained in droplets smaller than 100 microns ( $Dv\ 0.9 < 100\ \mu m$ ). 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 pounds per acre while the machine is traveling 10 miles per hour. The nozzle should be positioned approximately 30 degrees 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 pounds of pyrethrins per acre (use a 300-foot 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 ounces per minute from a location up-wind of the areas where insects are to be controlled.

Keep speed of vehicle to approximately 10 MPH. Figure application travel path for a coverage of a three hundred (300) foot swath. Apply no more than 0.0025 pounds per acre each day.

**HANDHELD EQUIPMENT OR BACKPACK:** When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of 4.0 oz. per acre. Allow spray drift to penetrate dense foliage.

**AERIAL APPLICATION (FIXED WING AND HELICOPTER):** To control adult mosquitoes and biting flies, apply up to 0.0025 pounds of pyrethrins per acre with equipment designed and operated to produce a ULV spray application.

#### 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. per 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 ounce to 2,000 cubic feet 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 or call 1-800-CLEANUP 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

**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  
 Spinosa Ear Ticks  
 Ticks

**BEETLES:**

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 Homed 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  
 Augoumcis 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

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