

499-452

1/10/2006

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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

JAN 10 2006

Dear Ms. Hodge,

Subject: Label Amendment to Add Statements Consistent with PR Notice 2005-1
EPA Registration No. 499-452
Product Name: ULD BP-100 Insecticide

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 1- Container Label front panel
 - a. Change the word "Controls" to "**Kills**". Otherwise, this implies that this product is a residual pesticide, and there is no data available in the Agency's files to substantiate any residual claims.
2. Page 2 - Container Label back panel
 - a. For clarification purposes, revise the following text within the Directions for Use, Indoor Use, SPACE APPLICATION subsection: "Then with a mechanical aerosol generator ..." to the following: "**Apply as space spray using a mechanical aerosol generator (no droplets over 50 microns in diameter and 80% of droplets less than 30 microns in diameter), ...**"
3. Page 3 - Container Label back panel
 - a. Revise the statement "Repeat as necessary for control" to "**Reapply once/day, if retreatment is necessary.**"
 - b. Within the Storage and Disposal section revise the statement "Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility." to: "**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.**"
4. Page 4 - Complete Label
 - a. Revise the sentence "Dependent upon insects to be controlled and the area to be treated..." to: "**Dependent upon insects to be killed and the area to be treated...**" Refer to 1.a. above for discussion.

5. Page 5 -- Complete Label

- a. Environmental Hazards section: Move the statement "Apply this product only as specified on this label." to a new subtitle within the Directions for Use directly under the statement "**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**" as follows:

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 and cover all food and water before use.
- Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces before use, or wash them thoroughly after ventilation of treated area.
- All food processing surfaces and equipment should be covered or washed with an effective cleaning compound followed by a potable water rinse after use of this product.
- Remove pets, birds and 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.

- b. Revise the **Environmental Hazards** section as follows:

ENVIRONMENTAL HAZARDS

This pesticide 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, 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 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.

- c. Hazards to Humans and Domestic Animals section: Reposition various statements to the new Use Restrictions section identified above.
 - d. For clarification purposes, revise the following text within the Directions for Use, Indoor Use, **SPACE APPLICATION** subsection: "Then with a mechanical aerosol generator ..." to the following: "**Apply as space spray using a mechanical aerosol generator (no droplets over 50 microns in diameter and 80% of droplets less than 30 microns in diameter), ...**"
 - a. Within the subsection entitled "**SPACE SPRAY APPLICATION**" revise the statement "Repeat applications as necessary for insect control." to "**Reapply once/day, if retreatment is necessary.**"
 - b. Within the subsection entitled "**DILUTION**" revise the citation "40 CFR 180.1001 to "**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.**"
6. Page 6 – Complete Label
- a. Include a reapplication interval within the section entitled: "**Federally Inspected Meat & Poultry Establishments**". I suggest "**Reapply once/day, if retreatment is necessary.**"
 - b. Please expand and explain the application methods in the subsection entitled: "**Deep Void Crack & Crevice Application**".
 - c. Within the subsections entitled "**Spot Application**" and "**Linear Application Along Baseboards, Trim Molding, etc.**" revise the statement "Repeat applications as necessary to flush insects from voids." to "**Reapply once/day, if retreatment is necessary.**"

OUTDOOR USE-Mosquito Control & PR Notice 2005-1

7. Page 6 & 7 – Complete Label
- a. **Handheld Equipment** – combine these instructions with the backpack section.
 - b. **Truck Mounted Equipment** – Delete this section and incorporate language into the Truck Mounted ULV Application section.
 - c. Retain the applicator statement but remove the Precautionary Statements Section, all associated subtitles and associated language. These statements are located on the label as described above.
 - d. Delete the statement: "Treatment of vegetation at the water's edge is permitted by allowing the wind to move the product into the vegetation."
 - e. List the use rates for the Wide Area Mosquito Control in lbs/acre instead of oz. per 1,000 cubic feet. You must also list on the front panel of the container label the specific weight of the active ingredient (pyrethrin) in lbs per gallon.
 - f. The Agency is recommending the inclusion of % concentration of pyrethrin in the diluted solutions described on the label in addition to "dilution by parts". Note that the efficacy data were collected in the range of 0.1% to 0.5%.
 - g. In the mosquito control directions for use, state the range of pyrethrin, PBO, and MGK 264 application rates for mosquito control in addition to the highest rate in pounds per acre. I suggest you specify the maximum amount of pyrethrin, PBO

and MGK 264 to apply in 24 hour and one year periods because it is important to environmental risk assessment evaluations.

- h. Within the subsection entitled "**DILUTION**" revise the citation "40 CFR 180.1001 to "**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.**"
 - i. For ease of applicator use, please add a table to the mosquito control directions providing examples of how much product to add to a specified volume of diluent to achieve the desired dilution, together with directives indicating the volumes of neat or diluted product to apply per acre at specified truck speeds. Include similar instructions for backpack and aerial applications also. These tables must be easy to read.
8. Page 7 – Complete Label
- d. Within the Storage and Disposal section revise the statement "Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility." to: "**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.**"
 - e. Within the subtitle "**FOR USE ON ANIMALS**", insert the following statement: "**Do not use on Dogs or Cats.**"
 - f. Within the subtitle "**FOR USE ON ANIMALS**", insert or revise existing statements to the following

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

- g. Delete the statement "at intervals to give continued protection."

It should be noted that Chapter 11 of the Label Review Manual and PR Notice 2005-1 were used to provide guidance for the aforementioned corrections listed for this product. The term "Control" with regards to pests, involves the submission of data to substantiate a sustained killing potential from a single application. In the absence of residual data to substantiate this claim, this product contains data for kill claims only.

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 Richard J. Gebken, at (703) 305-6701. Thank you for your cooperation in this matter.

Sincerely,

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

Enclosure

6 815

V9.0 (10/05)

Front Panel

ULD® BP-100
Insecticide

CONTROLS:

Ants, Angoumois Grain Moths, Boxelder 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, Waterbugs, 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.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See back panel for First Aid and Precautionary Statements.

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

ACCEPTED
with COMMENTS
In EPA Letter Dated:

JAN 10 2006
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
499-452

Back Panel

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 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. Remove pets, birds, and cover fish aquariums and turn off air pump motor before spraying. In health care facilities, remove patients prior to treatment. Thoroughly ventilate treated area for two hours before returning patients.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. For 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. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

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.

Do not apply directly to food. Do not apply while food processing is underway. Foods should be removed or covered during treatment. All food processing surfaces and equipment should be covered or washed with an effective cleaning compound followed by a potable water rinse. In the home, all food processing surfaces, dishes and utensils should be covered during treatment, or thoroughly washed before use.

Back Panel

INDOOR USE

SPACE SPRAY: Flying Insects: Use to kill flies, mosquitoes, gnats 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. Then with 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 one (1) fluid ounce per 1,000 cubic feet of room space or, when applying diluted product, apply at the rate of 1-2 fluid ounces per 1,000 cubic feet 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 one (1) hour. Ventilate thoroughly before occupants are allowed to re-enter. Repeat application as necessary for control.

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 180.1001(c) & (e). Combine oil and BP-100 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Application Rate Per 1,000 Cu. Ft.
0.50%	1 Part Conc. to 1 Part Oil	1 oz.
0.30%	3 Part Conc. to 7 Parts Oil	1-2 oz.
0.15%	3 Part Conc. to 17 Parts Oil	1-2 oz.

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 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 or 1-800-CLEANUP 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.]

A PRESCRIPTION TREATMENT® brand insecticide from:

Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Blvd.
St. Louis MO 63122-6682
www.wmmg.com

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[COMPLETE LABEL]

ULD® BP-100
Insecticide

For indoor or outdoor application as a space, area or contact spray. Dependent upon insects to be controlled 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.

CONTROLS:

Ants, Angoumois Grain Moths, Boxelder 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, Waterbugs, 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:	<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.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See page 2 for First Aid and Precautionary Statements.

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 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. Remove pets, birds, and cover fish aquariums and turn off air pump motor before spraying. In health care facilities, remove patients prior to treatment. Thoroughly ventilate treated area for two hours before returning patients.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. For 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. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

See separate directions and precautions for mosquito control applications.

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. Do not apply directly to food. Do not apply while food processing is underway. Foods should be removed or covered during treatment. All food processing surfaces and equipment should be covered or washed with an effective cleaning compound followed by a potable water rinse. In the home, all food processing surfaces, dishes and utensils should be covered during treatment, or thoroughly washed before use.

INDOOR USE

SPACE APPLICATION: Flying Insects: Use to kill flies, mosquitoes, gnats 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. Then with 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 one (1) fluid ounce per 1,000 cubic feet of room space or, when applying diluted product, apply at the rate of 1-2 fluid ounces per 1,000 cubic feet 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 one (1) hour. Ventilate thoroughly before occupants are allowed to re-enter. Repeat application as necessary for control.

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 180.1001(c) & (e). Combine oil and BP-100 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Application Rate Per 1,000 Cu. Ft.
0.50%	1 Part Conc. to 1 Part Oil	1 oz.
0.30%	3 Part Conc. to 7 Parts Oil	1-2 oz.
0.15%	3 Part Conc. to 17 Parts Oil	1-2 oz.

SPACE SPRAY & DIRECTED SPRAY APPLICATION - Crawling Insects: Use to kill roaches, silverfish, waterbugs, earwigs, ants, spiders and beetles in their 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. Then, with a mechanical aerosol generator (no droplets over 50 microns in diameter and 80% less than 30 microns) apply undiluted product at the rate of one (1) oz. per 1,000 cu. ft. of space. Close doors, windows and shut off all ventilating equipment before application. Leave room closed for at least one (1) hour after application. Do not remain in treated areas and ventilate thoroughly before occupants are allowed to re-enter. Reapply when insects reappear but not more than once per week.

FEDERALLY INSPECTED MEAT & POULTRY ESTABLISHMENTS: Apply as a space or directed contact spray for control of flies, mosquitoes, gnats, small flying moths, roaches, silverfish, waterbugs, earwigs, ants, and spiders 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 one (1) ounce per 1,000 cu. ft. of space. Leave room closed for at least one hour after application and ventilate before occupants are allowed to re-enter.

DEEP VOID CRACK & CREVICE® APPLICATION

To flush and kill insects harbored in deep voids and behind cracks and crevices.

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. Repeat application as necessary to flush insects from voids. Avoid applying to the point of runoff or drip. Ventilate thoroughly before occupants are allowed to re-enter.

LINEAR APPLICATION ALONG BASEBOARDS, TRIM MOLDING, 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 of approximately one (1) foot per second. Avoid applying to the point of runoff or drip. Repeat application as necessary to flush insects from the void. 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. Figure application travel path for a coverage of a fifty (50) foot 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 Precautions and 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or inhaled. Avoid breathing spray mist. Causes eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to fish. 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 contaminate bodies of water when disposing of equipment rinsate or washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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

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.

HANDHELD EQUIPMENT: When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of 4.0 oz. per acre. Figure application travel path for a coverage of a fifty (50) foot swath. Allow spray drift to penetrate dense foliage. Repeat application as required for control.

TRUCK MOUNTED EQUIPMENT: When using Whitmire Micro-Gen or similar truck mounted ULD equipment, spray at a dosage rate of fifteen (15) oz. per minute from a location up-wind of the areas where insects are to be controlled. Keep speed of vehicle to approximately five (5) MPH. Figure application travel path for a coverage of a three hundred (300) foot swath. Repeat application as required for control.

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 180.1001(c) & (e). Combine oil and BP-100 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Application Rate Per 1,000 Cu. Ft.
0.50%	1 Part Conc. to 1 Part Oil	1 oz.
0.30%	3 Part Conc. to 7 Parts Oil	1-2 oz.
0.15%	3 Part Conc. to 17 Parts Oil	1-2 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 meteorological conditions create a temperature inversion and wind speed does not exceed 5 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-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.

GROUND-BASED AND AERIAL APPLICATION

To control adult mosquitoes and biting flies, apply up to 0.250 pounds of pyrethrins per acre (use a 300 foot swath width for acreage calculations). Treatment of vegetation at the water's edge is permitted by allowing the wind to move the product into the vegetation.

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: Dilute 5 parts of BP-100 with 1 part of oil and apply at the rate of 2 to 2.25 ounces per minute while the machine is traveling 5 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 0.250 pounds of pyrethrins per acre (use a 300 foot swath width for acreage calculations).

BACKPACK SPRAYER APPLICATION: Apply 0.250 pounds of pyrethrins per acre. Dilute 1 part BP-100 with 12 parts of oil and apply at the rate of 7 ounces per acre (based on a 50 foot swath, 7 ounces should be applied while walking 870 feet).

AERIAL APPLICATION (FIXED WING AND HELICOPTER): To control adult mosquitoes and biting flies, apply up to 0.250 pounds of pyrethrins per acre with equipment designed and operated to produce a ULV spray application.

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 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 or call 1-800-CLEANUP 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.]

FOR USE ON ANIMALS

Dilute one (1) part concentrate to 1 part oil and mix well. To control horn flies, house flies, mosquitoes and gnats around beef and dairy cattle and horses, 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 ounces per adult animal, sufficient to wet the hair but not to soak the hide. Repeat treatment once or twice daily or at sufficient intervals to give continued protection. To control the motile stages of blood sucking lice on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use 2 ounces or less per animal and repeat every 2 to 3 weeks as required.

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:

Bedbugs
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:

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 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

A PRESCRIPTION TREATMENT® brand insecticide from:
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