

499-450

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. 499-450
Product Name: ULD BP-300 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. Pages 9-10 – 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 1.54 fl oz of the product per acre calculated as follows:
 - one gallon = 128 fl oz
 - one gallon contains 0.208 lbs pyrethrins.
 - 0.208 lbs pyrethrins/gallon /128 fl oz per gallon = 0.001625 lbs pyrethrins/fl oz.
 - # fl oz containing 0.0025lbs pyrethrins =
 $0.0025 \text{ lbs pyrethrins} / 0.001625 \text{ lbs pyrethrins/fl oz} = 1.54 \text{ fl oz}$
 - Therefore, 1.54 fl oz of product provides 0.0025 lbs pyrethrins

- ii. According to the "mixture rate" in the first table a 0.1% dilution is prepared by mixing 1 part concentrate to 29 parts oil. In order to deliver the maximum label application rate of 0.0025 lbs pyrethrins/acre an applicator must spray $1.53 \text{ fl oz} \times 30 = 46.2 \text{ fl. oz.}$ of the 0.1% dilution per acre. The flow rates listed in the 0.1% and 0.5% tables should be revised to deliver the correct amount of active ingredient per 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 traveling at 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 138 fl oz/minute or about 1.08 gallons/minute. At 10 mph the applicator will spray 6.06 acres/minute, which requires 276 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 552 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.
 - The same is true of the 0.5% dilution. In order to deliver 0.0025 lbs pyrethrins/acre you must spray 1.54 fl oz of product per acre. As calculated in your mixture table the amount of 1:5 dilution (0.5%) that delivers 0.0025 lbs pyrethrins equals $6 \times 1.54 = 9.24 \text{ fl oz.}$ Therefore, every acre treated at 0.0025 lbs pyrethrins per acre requires 9.24 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 27.99 fl. oz/min.; at 10 mph 55.98 fl. oz/min and at 20 mph 111.96 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 this restriction as 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

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mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.”

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.

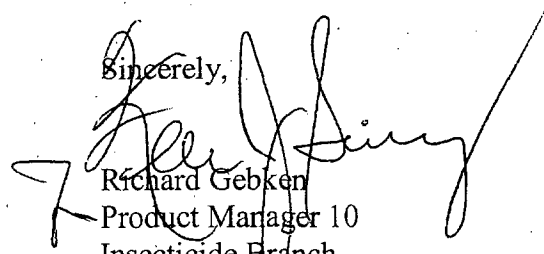
6. Add the restriction required by the piperonyl butoxide RED:

“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-300

Insecticide

KILLS:

Angoumois Grain Moths, Ants, Box Elder Bugs, Cadelles, Cheese Mites, Cigarette Beetles, Confused Flour Beetles, Crickets, Earwigs, Fruit Flies, Gnats, Granary Weevils, House Flies, Indian Meal Moths, Mosquitoes, Rice Weevils, Roaches, Spiders, Tobacco Moths, Wasps and Water Bugs.

FOR USE IN:

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

See complete label for additional insects and use sites.

ACTIVE INGREDIENT:

Pyrethrins*, a botanical insecticide	3.00%
Piperonyl butoxide, technical**	6.00%
n-Octyl bicycloheptene dicarboximide***	10.00%
OTHER INGREDIENTS:	81.00%
Contains Petroleum Distillate	TOTAL: 100.00%

* 1 Gallon contains 0.208 lb. of pyrethrins

** Equivalent to 4.8% (butylcarbityl)(6-propylpiperonyl) ether and 1.2% related compounds.

*** MGK-264 Insecticide Synergist.

KEEP OUT OF REACH OF CHILDREN CAUTION

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

EPA Reg. No. 499-450 • 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 2 0 2008**
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
499-450

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 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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Do not remain in enclosed areas after use. 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. 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 accompanying product for complete Directions for Use.

[See separate directions and precautions for Wide Area Mosquito Control Applications.]

Apply this product only as specified on this label. Do not apply directly to food. Food should be removed or covered during treatment. 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. In the home, all food processing surfaces, dishes and utensils should be covered during treatment or thoroughly washed before use.

INDOOR USE, UNDILUTED

AS A SPACE SPRAY - To kill accessible stages of insects* infesting dried fruit products in storage or being processed: Close room or warehouse and shut off all ventilating systems. Apply as space spray using a Whitmire Micro-Gen ULV unit, or similar equipment to dispense this product as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Use a dosage not to exceed 64 fl. oz. of this spray per 50,000 ft.³ of room space. Do not remain in treated areas after application, and leave room closed for at least one hour. Ventilate thoroughly before occupants are allowed to reenter. Repeat application every 30 days.

* Confused Flour Beetle, Dried Fruit Beetle, Indian Meal Moth, Roaches and Saw-toothed Grain Beetle

AS A SPACE SPRAY - To kill the adult and accessible forms of insect pests of stored food (stored in multiwall paper bags or in cloth bags) in warehouses and storage rooms:** Close room or warehouse and shut off all ventilating systems. Apply as space spray using a Whitmire Micro-Gen ULV unit, or similar equipment to dispense this product. Use a dosage of 1 fl. oz. of this spray per 1,000 ft.³ of room space. Do not remain in treated areas after application and leave room closed for at least 1 hour. Ventilate thoroughly before occupants are allowed to reenter. Reapply once/day if retreatment is necessary.

** Among these are the Angoumois Grain Moth, Cadelles, Confused Flour Beetle, Indian Meal Moth, Mediterranean Flour Moth, Rice Weevil, Saw-toothed Grain Beetle and Yellow Meal Worm

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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 (\leq 2.5 gal.) Empty container by using the product in accordance with the label directions. Do not reuse 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!**

CONTAINER DISPOSAL ($>$ 2.5 gal.) Empty container by using the product in accordance with the label directions. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

A Prescription Treatment® brand insecticide from:

Whitmire Micro-Gen Research Laboratories, Inc.

3568 Tree Court Industrial Blvd.

St. Louis MO 63122-6682

www.wmmg.com

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ULD® BP-300 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) cold aerosol generators such as Whitmire Micro-Gen equipment, as well as thermal and conventional fogging or spraying equipment.

KILLS:

Angoumois Grain Moths, Ants, Box Elder Bugs, Cadelles, Cheese Mites, Cigarette Beetles, Confused Flour Beetles, Crickets, Earwigs, Fruit Flies, Gnats, Granary Weevils, House Flies, Indian Meal Moths, Mosquitoes, Rice Weevils, Roaches, Spiders, Tobacco Moths, Wasps and Water Bugs.

FOR USE IN:

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

(See page 4 for additional insects and use sites.)

ACTIVE INGREDIENTS:

Pyrethrins*, a botanical insecticide	3.00%
Piperonyl butoxide, technical**	6.00%
n-Octyl bicycloheptene dicarboximide***	10.00%
OTHER INGREDIENTS:	81.00%
Contains Petroleum Distillate	TOTAL: 100.00%

* 1 gallon contains 0.208 lbs. of pyrethrins

** Consists of 4.80% (butylcarbityl) (6-propylpiperonyl) ether and 1.20% related compounds.

*** MGK-264 insecticide Synergist.

KEEP OUT OF REACH OF CHILDREN CAUTION

See inside for First Aid and Precautionary Statements

EPA Reg. No. 499-450 • EPA Est. No. 499-MO-1

ULTRA LOW DOSAGE THROUGH MICRON GENERATION

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 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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum and using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

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ENVIRONMENTAL HAZARDS

This product is highly toxic to fish. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

TERRESTRIAL USES: Do not apply directly to water, 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.

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.

[See separate directions and precautions for Wide Area Mosquito Control Applications.]

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 in the treatment area before use.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces in the treated area before use or wash them thoroughly after ventilation of treated area.
- Cover all food processing surfaces and equipment in the treatment area or wash with an effective cleaning compound followed by a potable water rinse after use of this product.
- Remove pets, birds and 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 2 hrs before returning patients.

INDOOR USE, UNDILUTED

AS A SPACE SPRAY - To kill accessible stages of insects* infesting dried fruit products in storage or being processed: Close room or warehouse and shut off all ventilating systems. Apply as space spray using a Whitmire Micro-Gen ULV unit, or similar equipment to dispense this product as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Use a dosage not to exceed 64 fl. oz. of this spray per 50,000 ft.³ of room space. Do not remain in treated areas after application, and leave room closed for at least 1 hour. Ventilate thoroughly before occupants are allowed to reenter. Repeat application every 30 days.

* Confused Flour Beetle, Dried Fruit Beetle, Indian Meal Moth, Roaches and Saw-toothed Grain Beetle

AS A SPACE SPRAY - To kill the adult and accessible forms of insect pests of stored food (stored in multiwall paper bags or in cloth bags) in warehouses and storage rooms:** Close room or warehouse and shut off all ventilating systems. Apply as space spray using a Whitmire Micro-Gen ULV unit, or similar equipment to dispense this product. Use a dosage of 1 fl. oz. of this spray per 1,000 ft.³ of room space. Do not remain in treated areas after application and leave room closed for at least 1 hour. Ventilate thoroughly before occupants are allowed to reenter. Reapply once/day if retreatment is necessary.

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[COMPLETE LABEL]

V8.0 (9/07)

** Among these are the Angoumois Grain Moth, Cadelles, Confused Flour Beetle, Indian Meal Moth, Mediterranean Flour Moth, Rice Weevil, Saw-toothed Grain Beetle and Yellow Meal Worm

CONTACT AND SPACE SPRAY: Use full strength or dilute as desired according to dilution table listed below and apply through equipment which can deliver a pin-stream spray. Apply the 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 this product undiluted at a dosage rate of approximately 1/2 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. Do not remain in treated areas after application and leave the room closed for one hour. Ventilate the area thoroughly before occupants are allowed to reenter. 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-300 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Application Rate Per 1,000 Ft. ³
1.00	1 Part Concentrate to 2 Parts Oil	1 fl. oz.
0.50	1 Part Concentrate to 5 Parts Oil	1 fl. oz.
0.30	1 Part Concentrate to 9 Parts Oil	1 - 2 fl. oz.
0.15	1 Part Concentrate to 19 Parts Oil	1 - 2 fl. oz.

SPACE SPRAY – To kill flying and crawling insects in establishments operating under the Federal meat, poultry, shell egg grading and egg products inspection programs: Dilute concentrate with a white mineral oil or odorless light petroleum as listed in the above paragraph, at the rate of 1 part concentrate to 2 parts oil, and mix well. Do not apply while food processing is underway. Cover or remove any exposed food. Cover food processing surfaces and equipment or wash with an effective cleaning compound followed by a potable water rinse. Close doors and windows and shut off all ventilating equipment prior to application. Using Whitmire Micro-Gen ULD equipment adjusted to deliver aerosol droplets (30 microns or less), apply 1 fl. oz. per 1000 ft.³ of space. Leave room closed for 1 hour after application and ventilate thoroughly before occupants are allowed to reenter. 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 setup and operation pressures. Place the tip of the applicator at or into the crack or 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 reenter.

Reapply once/day if retreatment is necessary.

LINEAR APPLICATION ALONG BASEBOARDS, TRIM MOLDING AND 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. /second. Avoid applying to the point of runoff or drip. Reapply up to once/day if retreatment is necessary. Ventilate thoroughly before occupants are allowed to reenter.

OUTDOOR USE

OUTDOOR GROUND FOGGING APPLICATION: Use diluted to kill flies, mosquitoes and gnats. Dilute concentrate with petroleum distillate at the rate of one part concentrate to two parts oil and mix well. Use at a time when the temperature is cool (75°F or less) and the wind velocity is approximately 10 MPH.

HANDHELD EQUIPMENT: When using ULD equipment such as Whitmire Micro-Gen equipment, apply at the rate of 4 oz./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 Precautions and Directions for Use.)

FOR USE ON ANIMALS

Dilute 1 part concentrate to 5 parts oil and mix well. To protect beef cattle, dairy cattle and horses from horn flies, house flies, mosquitoes and gnats, apply a light mist sufficient to wet the tips of the hair. To kill stable flies, horse flies and deer flies on beef cattle, dairy cattle and horses, apply 2 fl. oz./adult animal, sufficient to wet the hair but not to soak the hide. To kill the motile stages of blood sucking lice on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use 2 fl. oz. or less/animal and repeat every 2 to 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.

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: (≤ 2.5 gal.) Empty container by using the product in accordance with the label directions. Do not reuse 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!**

CONTAINER DISPOSAL: (> 2.5 gal.) Empty container by using the product in accordance with the label directions. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

ULD® and Crack & Crevice® are registered trademarks of Whitmire Micro-Gen Research Laboratories, Inc.

In addition to sites listed on the front panel ULD® BP-300 Insecticide is acceptable for use in and around the following sites:

INDOOR:

- Animal Areas and Quarters
- Apartments
- Auditoriums
- Bakeries
- Beverage Plants
- Boats
- Bottling Plants
- Brandy Storage Warehouses
- Buildings
- Buses
- Cabins
- Cafeterias
- Canneries
- Cattle Barns
- Churches
- Closets
- Condominiums
- Communication Centers
- Convenience Stores
- Correctional Facilities
- Dairy and Livestock Barns
- Dormitories
- Dried Fruit Processing Plants
- Drains and Sewers
- Dried Fruit Warehouses
- Drugstores
- Dumpsters
- Dwellings
- Egg Processing Plants
- Factories

- Flour Mills
- Food Handling Establishments
- Food Preparation Areas
- Food Processing Plants
- Food Service Areas
- Food Storage Areas
- Freight Containers
- Fruit Packing Sheds
- Garbage Cans
- Garbage Compactors
- Goat Houses
- Grain Elevators
- Grain Mills
- Grain Handling Equipment
- Granaries
- Grocery Stores
- Health Care Facilities
- Homes
- Hotels
- 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
- Motels
- Museums
- Mushroom Processing Plants
- Nursing Homes
- Office Buildings / Offices
- Passenger Rail Cars
- Peanut Processing Plants
- 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
- Schools
- Shade Houses
- Ships
- Ship holds
- Stables
- Stable Bins
- Stored Food in Multi-walled

[COMPLETE LABEL]

Paper or Cloth Bags
Stored Seed Warehouses
Stores
Supermarkets
Swine Houses
Textile Mills and Warehouses
Theaters
Tobacco Plants
Tobacco Warehouses
Townhouses
Trains
Transportation Equipment
Trucks
Truck Trailers
Universities

Utilities
Utility Rooms
Voids (Attics, Walls, Ceilings)
Warehouses
Wineries
Wine Storage Warehouses
Zoos

Garbage Dumps
Golf Courses
Junkyards
Kennels
Landscapes
Lath Houses
Manure Piles
Parks
Plantscapes
Playgrounds
Recreational Areas
Sewers
Swineyards
Zoos

OUTDOOR:
Campgrounds
Corrals
Drive-in Restaurants
Drive-in Theaters
Dumpsters
Feedlots

ULD® BP-300 Insecticide is also effective against the following insects when used according to label directions:

FLYING INSECTS:

Aphids
Barn Flies
Bees
Black Flies
Blow Flies
Bottle Flies
Box Elder Bugs
Cheese Skippers
Deer Flies
Face Flies
Flies
Fruit Flies
Fungus Gnats
Gnats
Horn Flies
Hornets
Horse Flies
House Flies
Mosquitoes
Mushroom Flies
Skipper Flies
Stable Flies
Thrips
Vinegar Flies
Wasps
Whiteflies
Yellow Jackets

GRAIN BORERS:

Larger Grain Borers
Lesser Grain Borers

CRAWLING INSECTS:

Ants
Bed Bugs
Booklice
Cabbage Loopers
Cabbage Worms
Centipedes
Chiggers

Chrysanthemum Leaf Miners
Crickets
Earwigs
Fire Ants
Firebrats
Grasshoppers
Mealy Bugs
Millipedes
Palmetto Bugs
Pill Bugs
Roaches
Scorpions
Sowbugs
Vegetable Leaf Miners
Water Bugs

FLEAS AND TICKS:

Brown Dog Ticks
Fleas
Sheep Ticks
Spinosa Ear Ticks
Ticks

SPIDERS AND MITES:

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

LICE:

Mounting Stages of Yellow
Lice & Sucking Blue Lice

WORMS:

Dark Mealworms
Lesser Mealworms
Yellow Mealworms

BETTERLES:

American Black Flour Beetles
Black Carpet Beetles
Black Fungus Beetles
Broad horned Flour Beetles
Brown Spider Beetles
Cadelles
Carpet Beetles
Catorama Beetles
Cereal Beetles
Cigarette Beetles
Confused Flour Beetles
Corn Sap Beetles
Darkling Beetles
Depressed Flour Beetles
Dermestid Beetles
Dried Fruit Beetles
Drugstore Beetles
Flat Grain Beetles
Foreign Grain Beetles
Fungus Beetles
Ground Beetles
Hairy Fungus Beetles
Hairy Spider Beetles
Hide Beetles
Khapra Beetles
Large Black Flour Beetles
Longheaded Flour Beetles
Merchants Grain Beetles
Mexican Grain Beetles
Murmidius Beetles
Red Flour Beetles
Red Horned Grain Beetles
Rusty Grain Beetles
Saw-toothed Grain Beetle
Slenderhorned Flour Beetles
Smalleyed Flour Beetles
Spider Beetles
Squarenecked Grain Beetles
Trogoderma Beetles
Two Banded Beetles
White Marked Spider Beetles

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WEEVILS:

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

Rice Weevils

MOTHS:

- Almond Moths
- Angoumois Grain Moths
- Chocolate Moths
- Clothes Moths

- Cocoa Bean Moths
- European Grain Moths
- Indian Meal Moths
- Mediterranean Flour Moths
- Rice Moths
- Pink Scavenger Caterpillars
- Tobacco Moths

WIDE AREA MOSQUITO CONTROL

(For wide area community applications by ground or aerial equipment, Ultra Low Volume (ULV) sprays or fogs.)

For use only by federal, state, tribal or local government officials responsible for public health or vector control or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications 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 10 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-300 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Fluid Ounce Of Diluted Product Delivers 0.0025 lbs. Pyrethrin/Acre
0.50%	1 Part Conc. to 5 Parts Oil	9.7 fl. oz.
0.30%	1 Part Conc. to 9 Parts Oil	16.1fl. oz.
0.25%	1 Part Conc. to 11 Parts Oil	19.4 fl. oz.
0.15%	1 Part Conc. to 19 Parts Oil	32.2 fl. oz.
0.10%	1 Part Conc. to 29 Parts Oil	48.5 fl. oz.

BP-300 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-300 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. pyrethrins/acre while the machine is traveling 5 - 20 mph. Position the nozzle 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 138 oz./min from a location up-wind of the areas where

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[COMPLETE LABEL]

V8.0 (9/07)

insects are to be treated. 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./acre 3 times/week.

**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

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-300 should be diluted with light mineral oil (specific gravity of approximately 0.8 at 60°F, boiling point: 500-840°F). An N.F. grade oil is preferred.

AERIAL APPLICATION (FIXED WING AND HELICOPTER): To control adult mosquitoes and biting flies, apply up to 0.0025 lbs. of pyrethrins/acre with equipment designed and operated to produce a ULV spray application. Spray equipment must be adjusted so that the volume median diameter is less than 40 microns (Dv 0.5 < 40 µm) and that 90% of the spray is contained in droplets smaller than 115microns (Dv 0.9 < 115µm). The effects of flight speed and, for non-rotary nozzles, nozzle angel on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used be tested at least annually to confirm that pressure at the nozzle an nozzle flow rate(s) are properly calibrated.

A Prescription Treatment® brand insecticide from:
Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Blvd.
St. Louis MO 63122-6682
www.wmmg.com

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