

499-514

6/13/2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505C)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

499-514

Date of Issuance:

JUN 13 2008

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Whitmire Micro-Gen TC 264

Name and Address of Registrant (include ZIP Code):

Ms. Dana M. Thomas,  
Manager, Product Registrations  
Whitmire Micro-Gen Research Laboratories, Inc.  
3568 Tree Court Industrial Boulevard  
St. Louis, MO 63122-6682

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

(continued on page 2)

Signature of Approving Official:

Refer to Page #6.

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

Date:

JUN 13 2008

EPA Form 8570-6

2. Make the following change to the label:

- a. Change the product registration number to "EPA Reg. No. 499-514"
- b. Make the following label revisions:

General Statement:

- 1. Delete all text throughout the label marked with "~~strikethrough~~."
- 2. Delete the reference to the web site URL: "[www.wmmg.com](http://www.wmmg.com)" currently listed on the last page of the proposed label. This reference is considered collateral labeling.

First Aid section comment(s):

- 3. Replace the statement "Have the product container or ...." with: "Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-800-225-3320 twenty-four (24) hours per day, seven (7) days per week."

Precautionary Statements, Hazards to Humans and Domestic Animals subsection comment(s):

- 4. Replace the 5<sup>th</sup> sentence with: "Wash hands thoroughly with plenty of soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet."
- 5. Add to the Precautionary Statements the following: "Wear protective eyewear".
- 6. Add the appropriate PPE statements from the Pyrethrins RED pg. 81-83.
- 7. Add to the Physical and Chemical Hazards statements the following: "Do not apply this product around electrical equipment due to the possibility of shock hazard."

Precautionary Statements, Environmental Hazards subsection comment(s):

- 8. Replace the existing section with: "**ENVIRONMENTAL HAZARDS for TERRESTRIAL USES**

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. This product has a potential for run-off for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce run-off that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Except as specified in the Directions for use, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

**ENVIRONMENTAL HAZARDS for WIDE AREA MOSQUITO ADULTICIDE APPLICATIONS**

This pesticide is toxic to aquatic organisms, including fish and invertebrates. Run-off from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

When applying as a wide area mosquito adulticide, 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.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply

when bees are visible, the treatment area, except when applications 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 bases 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.”

Precautionary Statements, Environmental Hazards subsection comment(s), continued:

“When applying as a wide area mosquito adulticide, 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.”

Directions for Use section comment(s):

9. Replace the existing subsection titled “USE RESTRICTIONS” with:

<p><b>GENERAL PRECAUTIONS AND USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Apply this product only as specified on this label.</li> <li>• Not for use in outdoor residential misting systems.</li> <li>• Except when applying (insert application method or site that allows people to be present), do not enter or allow others to be present until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated.</li> <li>• Except when applying (insert application method or site that allows people to be present), do not apply this product in a way that will contact workers or other persons, either directly or through drift.</li> <li>• Except when applying (insert application method or site that allows people to be present), only protected handlers may be in the area during application.</li> <li>• Do not enter or allow adults, children or pets to enter until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated.</li> <li>• Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed.</li> <li>• Do not apply this product in a way that will contact adults, children or pets, either directly or through drift.</li> <li>• Remove or cover exposed food and drinking water before application.</li> <li>• Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.</li> <li>• Do not make space spray applications when facility is in operation.</li> <li>• During space spray applications, cover or remove food.</li> <li>• During space spray applications, cover food processing surfaces and equipment or clean after treatment with a suitable detergent and rinse with potable water before use.</li> <li>• Do not apply more than 1 time per day.</li> <li>• Remove pets, birds and cover fish aquariums before spraying.</li> <li>• In health care facilities, remove patients prior to treatment and thoroughly ventilate treated area for</li> </ul>
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10. In the “SPACE APPLICATION: Flying Insects:” subsection, replace the 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> sentences with: “Prior to treatment, open cabinets and doors, turn off air conditioners and fans, extinguish all flames and close doors and windows in the area to be treated. Disperse toward areas suspected of harboring the greatest infestations of listed pests. Disperse in all locations (including around equipment, appliances and pallets, if desired) contacting as many insects as possible. Do not remain in treated areas after application. Keep area closed for at least 1 hour. Open and thoroughly ventilate treated areas before reoccupying. Reapply 1/day if retreatment is necessary.”

11. In the “DIRECTED SPRAY APPLICATION:” subsection, replace the 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> sentences with: “Direct a pin stream spray into all cracks, crevices, holes and other small (openings) areas where listed pests might be hiding, harboring, living and breeding (such as behind baseboards, walls, floors, sinks, behind pipes, cabinets, door frames and windows), contacting as many insects as possible. Do not allow

spray to contact surfaces and food.”

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Directions for Use section comment(s), continued:

12. In the “**SPACE SPRAY:**” subsection, replace the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> sentences with: “Prior to treatment, open cabinets and doors, turn off air conditioners and fans, extinguish all flames and close doors and windows in the area to be treated. Disperse toward areas suspected of harboring the greatest infestations of listed pests. Disperse in all locations (including around equipment, appliances and pallets, if desired) contacting as many insects as possible. Do not remain in treated areas after application. Keep area closed for at least 1 hour. Open and thoroughly ventilate treated areas before reoccupying. Reapply 1/day if retreatment is necessary.”
13. Delete the “**FEDERALLY INSPECTED MEAT & POULTRY ESTABLISHMENTS:**” subsection as required by the RED for pyrethrins.<sup>1</sup>
14. In the “**DEEP VOID APPLICATION:**” subsection, replace the 6<sup>th</sup> and 7<sup>th</sup> sentences with: “Apply to surfaces until moist, but in such a manner that dripping and run-off on structural surfaces is minimized. Open and thoroughly ventilate treated areas before reoccupying.”
15. In the “**LINEAR APPLICATION ALONG BASEBOARDS, TRIM MOLDING, EQUIPMENT, CRACKS, CREVICES AND VOIDS:**” subsection, replace the 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> sentences with: “Apply to surfaces until moist, but in such a manner that dripping and run-off on structural surfaces is minimized. Reapply 1/day if retreatment is necessary. Open and thoroughly ventilate treated areas before reoccupying.”
16. Clarify the directions for use on bedbugs.
17. Delete the “**ON ANIMAL USE RESTRICTIONS**” subsection. These statements have been included in the new “**General Precautions and Use Restrictions**” section.

Storage and Disposal section comment(s):

18. Replace this section with:

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal.

**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:** Nonrefillable container. Empty container by using this product according to the label directions. Do not reuse or refill this container! Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

[(=2.5 gallon container) Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure 2 more times.]

[(>2.5 gallon container) Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, enduring at least one (1) complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure 2 more times.]

Place empty, triple rinsed 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!**

<sup>1</sup> For more detailed information, please refer to page 93 of 108 of the RED for pyrethrins.

General Comments:

19. Data deficiencies were identified for storage stability and corrosion characteristics in the product chemistry review for this product. Therefore, Whitmire Micro-Gen is obligated to submit a One Year Storage Stability (830.6317) study and a Corrosion Characteristics (830.6320) study on this product in support of this registration within twelve (12) months from the date of registration.<sup>2</sup>
3. Within forty-five (45) days of the date of this letter, MGK Company must submit a revised label incorporating all of the following revisions as required by the efficacy review for this product.<sup>3</sup>
- (a) All of the submitted efficacy (product performance) studies are rated as supplementary for the reasons stated in the efficacy review completed for this product (copy enclosed).
  - (b) A conditional indoor study should be conducted in one large chamber using caged insects from the various species in the submitted studies. The study should be repeated 5 times. The room size should 2,000 to 5,000 cubic feet and it should be capable of being ventilated when the test is completed. Exposure time should be 1 hour. Insects should be transferred to clean containers and evaluated at 24 hours post-treatment for mortality. Untreated controls should be replicated in equal numbers without any treatment. The study should be submitted within twelve (12) months from the date of registration.
  - (c) The wide area mosquito control directions should be revised to fully comply with PR Notice 2005-1. As a condition of registration, the registrant must submit a field truck-mounted ULV study at geographically distinct locations in the U.S. The study should be submitted within eighteen (18) months from the date of registration.
  - (d) The aerial application directions must be supported by a field study in which the subject product is applied by aircraft. The study should be submitted within eighteen (18) months from the date of registration.
  - (e) The Agency will provide guidance to Whitmire on the conduct of the 3 studies described above. These data are routinely required in support of product performance claims for the associated use patterns.
  - (f) The minimum application rate for adult mosquito control should be 0.0025 lbs. pyrethrins per acre based on the supplemental studies submitted and previously approved rates for other Whitmire mosquito adulticides.
  - (g) Revise the subject label to reflect the approved changes for EPA Reg. Nos. 499-453, 499-450 and 499-452 where appropriate.
  - (h) The recommendations made by Kable Davis as conditions of registration for TC 263 also apply to the subject product.
  - (i) All references to "cockroaches" must be revised to read "German cockroaches."
  - (j) All references to "Ants (Harvester)" must be revised to read "Ants (except Harvester)."
  - (k) All references to "Palmetto Bugs" must be deleted from this label.
  - (l) All references to "GENERAL SURFACE SPRAY" treatments must be deleted from this label. The submitted data do not support inclusion of this use on the label.

<sup>2</sup> For more detailed information, please refer to page 2 of 3 of the product chemistry review for this product.

<sup>3</sup> For more detailed information, please refer to pages 13 of 13 of the efficacy review for this product.

- 6/14
- Submit two (2) copies of final printed labeling, incorporating the above changes, before releasing the product for shipment.

Whitmire Micro-Gen should note that a notice of availability of EPA's reregistration eligibility decision (RED) document for products containing pyrethrins was published in the *Federal Register* on July 26, 2006 (Volume 71, Number 143, Pages 42387-42389). In addition, EPA's RED for products containing piperonyl butoxide was published in the *Federal Register* on July 26, 2006 (Volume 71, Number 143, Pages 42385-42386). As a result, additional data and/or labeling changes may be required for products containing pyrethrins and piperonyl butoxide.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes accepting of these conditions.

A stamped "Accepted" copy of the label and hard copies of the acute toxicity, efficacy and product chemistry reviews for this product are enclosed for your records.



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

Enclosures  
000499-00514 D367847

# TC 264

**KILLS:**

Ants, Angoumois Grain Moths, Bed Bugs, Boxelder Bugs, Cadelles, Cheese Mites, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Earwigs, Fruit Flies, Gnats, Granary Weevils, House Flies, Indianmeal Moths, Mosquitoes, Rice Weevils, Spiders, Tobacco Moths, Wasps and Yellowjackets

**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; Universities and On Animal

See complete label for additional insects and use sites.

**ACTIVE INGREDIENT:**

Pyrethrins*, a botanical insecticide .....	1.00%
Piperonyl butoxide, Technical** .....	5.00%

<b>OTHER INGREDIENTS:</b> .....	94.00%
Contains Petroleum Distillate	TOTAL: 100.00%

\* 1 gallon contains 0.066 lb of pyrethrins

\*\* Consists of 4.0% (butylcarbityl)(6-propylpiperonyl) ether and 1.0% related compounds.

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

See back panel for First Aid, Precautionary Statements, Directions for Use and Storage & Disposal.

EPA Reg. No. 499-xxx • 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**  
**June 13, 2008**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
499-514



**FIRST AID**

**IF SWALLOWED:** Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**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. Causes moderate eye irritation. Avoid contact with eyes 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.

**ENVIRONMENTAL HAZARDS**

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

**TERRESTRIAL USES:** Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment wash waters.

See complete label for additional statements regarding Wide Area Mosquito Control Applications.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame. **Note:** Some furniture finishes and particularly plastics can be damaged by petroleum-based insecticides. To avoid damage, cover those items and do not spray directly. If in doubt, test by applying this material to an inconspicuous area before spraying.

**DIRECTIONS FOR USE**

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

See full label for complete Directions for Use.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in a secured dry storage area.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site in accordance with the label directions or at an approved waste disposal facility.

**CONTAINER DISPOSAL: ( $\leq$  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 or call 1-800-CLEANUP 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

© 2006 Whitmire Micro-Gen Research Laboratories, Inc.



# TC 264

For indoor or outdoor application as a space, area or contact spray. Dependent upon insects to be killed and the area to be treated, this product may be applied through mechanical aerosol or ultra low volume (ULV) generators, such as Whitmire Micro-Gen equipment, as well as thermal and conventional fogging or spraying equipment.

**KILLS:**

Ants, Angoumois Grain Moths, Bed Bugs, Boxelder Bugs, Cadelles, Cheese Mites, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Earwigs, Fruit Flies, Gnats, Granary Weevils, House Flies, Indianmeal Moths, Mosquitoes, Rice Weevils, Spiders, Tobacco Moths, Wasps and Yellowjackets

**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; Universities and On Animal

See page x for additional insects and use sites.

**ACTIVE INGREDIENTS:**

Pyrethrins*, a botanical insecticide .....	1.00%
Piperonyl butoxide, technical** .....	5.00%

<b>OTHER INGREDIENTS:</b> .....	94.00%
Contains Petroleum Distillate	TOTAL: 100.00%

\* 1 gallon contains 0.066 lb of pyrethrins

\*\* Consists of 4.0% (butylcarbityl)(6-propylpiperonyl) ether and 1.0% related compounds.

## KEEP OUT OF REACH OF CHILDREN CAUTION

See inside for First Aid and Precautionary Statements.

EPA Reg. No. 499-xxx • 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 for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**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. Causes moderate eye irritation. Avoid contact with eyes 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.

**ENVIRONMENTAL HAZARDS**

This product is highly 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, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment wash waters.

**WIDE-AREA MOSQUITO CONTROL APPLICATIONS BY GROUND OR AERIAL EQUIPMENT:** Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish. Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries) except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

Do not apply to blooming crops or weeds when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by the state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use or store near heat or open flame. **Note:** Some furniture finishes and particularly plastics can be damaged by petroleum-based insecticides. To avoid damage, cover those items and do not spray directly. If in doubt, test by applying this material to an inconspicuous area before spraying.

**DIRECTIONS FOR USE**

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

**USE RESTRICTIONS**

- Apply this product only as specified on this label.
- Do not remain in treated area when applying as a space treatment. Ventilate area thoroughly before reentering.
- Do not allow children or pets to enter the treated area until it has been thoroughly ventilated.
- Do not apply directly to food.
- Remove or cover all food and water in the treatment area before use.
- Do not apply while food processing is underway when applying as a space treatment.
- 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.
- 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 2 hr before returning patients.

**INDOOR USE**

**SPACE APPLICATION: Flying Insects:** Flies, Gnats, Mosquitoes and Small Flying Moths. Use full strength or dilute product as desired according to dilution table listed below. ~~Close doors, windows and shut off all ventilating equipment.~~ Apply as space spray using a mechanical aerosol generator (no droplets over 75 microns in diameter and 80% less than 30 microns) ~~apply undiluted product~~ at a dosage rate of approximately 1 fl oz/1,000 ft<sup>3</sup> of room space or, when applying diluted product, apply at the rate of 1– 2 fl oz/1,000 ft<sup>3</sup> of room space. Direct spray toward upper areas of room. Do not remain in treated areas after application, and leave room closed for at least 1 hr. Ventilate thoroughly before occupants are allowed to reenter. Reapply 1/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 TC 264 as directed below and mix well just prior to application.

Pyrethrin %Desired	Mixture Rate	Application Rate per 1,000 ft <sup>3</sup>
0.50%	1 Part Conc. to 1 Part Oil	1 fl oz
0.30%	3 Part Conc. to 7 Parts Oil	1 - 2 fl oz
0.15%	3 Part Conc. to 17 Parts Oil	1 - 2 fl oz

**DIRECTED SPRAY APPLICATION - Crawling Insects:** Ants, Beetles, Cockroaches, Earwigs, Silverfish and Spiders. Kills insects where they harbor. 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.

**SPACE SPRAY:** Apply as space spray using a mechanical aerosol generator (no droplets over 75 microns in diameter and 80% less than 30 microns) apply undiluted product at the rate of 1 oz/1,000 ft<sup>3</sup> of space. Close doors, windows and shut off all ventilating equipment before application. Leave room closed for at least 1 hr after application. Do not remain in treated areas and ventilate thoroughly before occupants are allowed to reenter. Reapply 1/day if retreatment is necessary.

~~**FEDERALLY INSPECTED MEAT & POULTRY ESTABLISHMENTS:** Ants, Cockroaches, Earwigs, Flies, Gnats, Mosquitoes, Silverfish, Small Flying Moths and Spiders. Apply as a space or directed contact spray in establishments operating under the Federal Meat, Poultry, Shell Egg Grading, and Egg Products Inspection Program. Do not apply while food processing is underway. Cover all food processing surfaces and equipment or wash 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 ULV fogging equipment, adjust it to deliver aerosol droplets (30 microns or less) and apply 1oz/1,000 ft<sup>3</sup> of space. Leave room closed for at least 1 hr after application and ventilate before occupants are allowed to reenter. Reapply 1/day if retreatment is necessary.~~

**DEEP VOID APPLICATION:** With equipment designed for deep void ULV applications, follow the manufacturer's recommendations for proper equipment set up and operating pressures. Place the tip of the applicator at or into the crack and crevice to be treated. Apply product in short bursts while keeping tip in position. Allow the air stream to push insecticide deep into voids. Reapply 1/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, EQUIPMENT, CRACKS, CREVICES AND VOIDS:** With equipment designed for 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 1ft/sec. Avoid applying to the point of runoff or drip. Reapply 1/day if retreatment is necessary. Ventilate thoroughly before occupants are allowed to reenter.

#### OUTDOOR USE

**OUTDOOR GROUND FOGGING APPLICATION USING HAND HELD EQUIPMENT:** Flies, Gnats and Mosquitoes. Use 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. When using equipment such as Whitmire Micro-Gen ULV equipment, apply at the rate of 4 oz/acre. Allow spray drift to penetrate dense foliage. Repeat application as required for control.

For wide area community applications, see the Wide Area Mosquito Control section for appropriate Directions for Use.

#### FOR USE ON ANIMALS

Dilute 1 part concentrate to 1 part oil and mix well. For use against gnats, horn flies, houseflies and mosquitoes around beef, dairy cattle and horses, apply a light mist sufficient to wet the tips of the hair. For use against deer flies, horse flies and stable flies, and on beef, dairy cattle and horses, apply 2 fl oz/adult animal, sufficient to wet the hair but not to soak the hide. To control the motile stages of blood sucking lice on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use 2 fl oz or less/animal and repeat every 2 - 3 weeks as required. Do not use on dogs or cats.

#### ON ANIMAL USE RESTRICTIONS

- Do not apply more than 1/day.
- Do not reapply within 1 day.
- Do not remain in treated area.
- Do not allow unprotected persons to enter until treated area has been thoroughly ventilated.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in a secured dry storage area.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site in accordance with 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 or call 1-800-CLEANUP 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.

## WIDE AREA MOSQUITO CONTROL

(For wide area community applications by ground or aerial equipment, ultra low volume (ULV) sprays or fogs.)

For use only by federal, state, tribal or local government officials responsible for public health or vector control or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications or by persons under their direct supervision.

### DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT  
IN A MANNER INCONSISTENT WITH ITS LABELING

#### OUTDOOR USE – MOSQUITO CONTROL

Use at the 0.1% – 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 21CFR 178.3620(b) or an odorless light petroleum hydrocarbon conforming to 21CFR 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 TC 264 as directed below and mix well just prior to application.

Pyrethrin % Desired	Mixture Rate	Fluid Uncces of Diluted Product Delivers 0.0025 lb Pyrethrin/Acre
0.50%	1 Part Conc. to 1 Part Oil	9.7 fl oz
0.30%	3 Part Conc. to 7 Parts Oil	16.1 fl oz
0.25%	1 Part Conc. To 3 Parts Oil	19.4 fl oz
0.15%	3 Part Conc. to 17 Parts Oil	32.2 fl oz
0.10%	1 Part Conc. To 9 Parts Oil	48.5 fl oz

TC 264 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. TC 264 may be used over agricultural crops. For best results, apply when meteorological conditions create a temperature inversion and wind speed does not exceed 10 MPH. The application should be made so the wind will carry the insecticidal fog into the area being treated. Do not retreat a site more than once in 24 hr; 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, TC 264 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 kill adult mosquitoes and biting flies, apply up to 0.0025 lb of pyrethrins/acre (use a 300 ft swath width for acreage calculations).

Spray equipment must be adjusted so that the volume median diameter is less than 50 microns ( $D_v 0.5 < 50 \mu\text{m}$ ) and that 90% of the spray is contained in droplets smaller than 100 microns ( $D_v 0.9 < 100 \mu\text{m}$ ). 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.

**TRUCK-MOUNTED ULV APPLICATION:** Apply at the rate of up to 0.0025 lb/acre while the machine is traveling 10 MPH. The nozzle should be positioned approximately 30° above the horizontal off the side of the truck bed. The delivery rate and truck speed may be varied as long as the application rate is 0.0025 lb of Pyrethrins/acre (use a 300 ft swath width for acreage calculations). When using Whitmire Micro-Gen or similar truck mounted ULD equipment, spray at a dosage rate of up to 15 oz/min from a location up-wind of the areas to be treated. Keep speed of vehicle to approximately 10 MPH. Figure application travel path for a coverage of a 300 ft swath. Apply no more than 0.0025 lb/acre/day.

**HANDHELD AND BACKPACK EQUIPMENT:** Use at 0.1 – 0.5%. Apply up to 0.0025 lb/acre. Allow spray drift to penetrate dense foliage. Apply at no more than 0.0025 lb/acre/day.

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

In addition to sites listed on the front panel, TC 264 Insecticide is acceptable for use in and around the following sites:

**INDOOR:**

Animal Areas & Quarters  
Auditoriums  
Apartments  
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 & Livestock Barns  
Dormitories  
Dried Fruit Processing Plants  
Drains & Sewers  
Dried Fruit Warehouses  
Drugstores  
Dumpsters  
Dwellings  
Egg Processing Plants  
Factories  
Flour Mills  
Food Handling Establishments  
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  
Horse Stables/Barns  
Hospices  
Hotels  
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  
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  
Schools  
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  
Universities  
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

TC 264 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  
Fruit Flies  
Fungus Gnats  
Gnats  
Horse Flies  
House Flies  
Horn Flies  
Hornets  
Mosquitoes  
Mushroom Flies  
Stable Flies  
Skipper Flies  
Thrips  
Vinegar Flies  
Whiteflies  
Yellowjackets

**GRAIN BORERS:**

Larger Grain Borers  
Lesser Grain Borers

**CRAWLING INSECTS:**

Bed Bugs  
Book Lice  
Cabbage Loopers  
Cabbage Worms  
Centipedes  
Chiggers  
Chrysanthemum Leaf Miners  
Cockroaches  
Crickets  
Earwigs  
Fire Ants  
Firebrats  
Grasshoppers  
Mealy Bugs  
Millipedes

Pillbugs  
Palmetto Bugs  
Scorpions  
Sowbugs  
Vegetable Leaf Miners

**FLEAS & TICKS:**

Brown Dog Ticks  
Fleas  
Sheep Ticks  
Spinos Ear Ticks  
Ticks

**SPIDERS & MITES:**

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

**LICE:**

Cattle Lice  
Molting Stages of Yellow Lice &  
Sucking Blue Lice

**WORMS:**

Dark Mealworms  
Lesser Mealworms  
Yellow Mealworms

**BETTERLES:**

American Black Flour Beetles  
Black Fungus Beetles  
Black Carpet Beetles  
Broadhorned Flour Beetles  
Brown Spider Beetles  
Carpet Beetles  
Cadelles  
Catorama Beetles  
Cereal Beetles  
Cigarette 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  
Sawtoothed 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  
Granary Weevils  
Maize Weevils  
Rice Weevils

**MOTHS:**

Almond Moths  
Angoumois Grain Moths  
Chocolate Moths  
Clothes Moths  
Cocoa Bean Moths  
Confused Flour Beetles  
European Grain Moths  
Indianmeal Moths  
Mediterranean Moths  
Pink Scavenger Caterpillars  
Rice Moths  
Tobacco Moths

**A Prescription Treatment® brand insecticide from:**

Whitmire Micro-Gen Research Laboratories, Inc.

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~~www.wmmg.com~~

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