8329-63

01/03/2007



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

> OFFICE OF PREVENTION PENDICIDES AND TOXICSUBSUANCES

January 3, 2007

Ms. Karen J. Larson Regulatory Affairs Manager Clarke Mosquito Control Products, Inc. 159 North Garden Avenue Roselle, IL 60172

Dear Ms. Larson,

Subject: Agency Initiated Action – Product Labeling Biomist 2 + 2 ULV EPA Reg. No. 8329-63 Application dated December 28, 2006

The labeling referred to above, submitted in connection with registration under the Federal, Insecticide, Fungicide and Rodenticide Act, is acceptable provided you:

1. Remove the term "All-Temperature" from the statement "An All-Temperature, Quick Knockdown, Low Odor..." on page 1 of the label.

2. Move the following statements from the Environmental Hazards section to the Directions for Use section:

"Avoid contamination of food or feed." Add: "Do not contaminate food or feed products. Do not allow spray treatments to drift onto pastureland, cropland, poultry range; or potable water supplies. Do not use on crops for food forage or pasture. In treatment of corrals, feed lots, swine lots, and zoos, cover any exposed drinking water, drinking water four tains and animal feed before application."

3. State the application rates per acre for piperonyl butoxide.

4. Under the heading "Thermal Fogging" change "Do not exceed the maximum application rate." to read "Do not exceed the maximum application rate of 0.007 lbs. permethrin per acre. 5. Under the heading entitled, "Barrier Applications", add the following statement: "When this product is applied as a barrier treatment, do not apply within 100 feet (30 meters) of lakes and streams."

Please note that the availability of EPA's reregistration eligibility document (RED) for products containing permethrin was published in the FR on June 28, 2006 (Vol.71 No.124 pg. 36788). Additional data or labeling changes may be required for products containing permethrin.

A stamped copy of the label is enclosed for your records. Submit two copies of the final printed label before releasing the product for shipment. If you any questions, please do not hesitate to contact Kevin Sweency at (703) 305-5063. Thank you for your cooperation in this matter.

Incerely, yeu George LaR PM13

Registration Division 7505P Insecticides Branch

Enclosure

## DRAFT LABELING

# **BIOMIST® 2+2 ULV**

An All Temperature, Quick Knockdown, Low Odor, Non-Corrosive, Synthetic Pyrethroid for Control of Adult Mosquitoes in Outdoor Residential and Recreational Areas. Also For Use Against Biting and Non-Biting Midges and Blackflies.

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.

Active Ingredients Permethrin (3-Phenoxyphenyl) methyl (+/-) cis,	
trans-3-(2,2-dichlorethenyl)-2,2-dimethyl cyclopropanecarboxylate	2.00%
Piperonyl Butoxide, Technical *	2.00%
Other Ingredients **	<u>96.00%</u> 100.00%
Contains 0.167 pounds of Permethrin and	
0.167 pounds of Piperonyl Butoxide per gallon.	
* Equivalent to 80% (butylcarbityl)(6-propylpiperonyl) ether and 20% related compounds.	

\*\* Contains petroleum distillate

# CAUTION **KEEP OUT OF REACH OF CHILDREN**

Manufactured For **CLARKE MOSQUITO CONTROL PRODUCTS, INC.** 159 N. GARDEN AVENUE ROSELLE, ILLINOIS 60172

EPA Reg. No.: 8329-63 EPA Est. No.:

NET CONTENTS:	
LOT NO.:	

CEPIED with COMMENTS In EPA Letter Dated

A.3.1 Fungielde, and Rodenticide Act. as amended, for the posticide registered under EPA Reg. No.

Under AN

	FIRST AID				
Have product container or label with you when calling a poison control center or doctor, or going for treatment. For Medical Emergencies, call the International Poison Control Center at 1-800-214-7753.					
IF SWALLOWED:	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Dc 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 91) or an ambulance, then give artificial respiration, preferably mouth-to-mouth. 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 eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, hen continue rinsing the eye. Call a poison control center or doctor for treatment advice.				
NOTE TO PHYSICIAN: Produc					

BIOMIST 22ULV.doc DRAFT LABELING 061229.8329.63

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Caution.** Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Avoid contact with eyes, skin, or clothing. May cause contact sensitization following repeated contact with skin in susceptible individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

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

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 when applications are 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 recover effort.

Avoid contamination of food and feed.

# PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill 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.

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.

BIOMIST® 2+2 ULV is recommended for application as an ultra low volume (ULV) nonthermal aerosol (cold fog) to control adult mosquitoes in residential and recreational areas where these insects are a problem, such as but not limited to parks, campsites, woodlands, athletic fields, golf courses, residential areas, and municipalities, gardens, playgrounds, recreational areas and overgrown waste areas. For best results treat when mosquitoes are most active and weather conditions are conducive to keeping the spray cloud close to the ground. An inversion of air temperatures and a light breeze is preferable. Application in calm air conditions is to be avoided. Apply only when ground wind speed is greater than 1 mph. Air temperatures should be greater than 50 °F when conducting all types of applications.

Do not treat a site with more than 0.007 pounds of permethrin per acre in a twenty-four hour period. Do not apply more than 0.18 pounds of permethrin per acre per year. More frequent applications 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 mosquitoborne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

# SPRAY DROPLET SIZE DETERMINATION

**Ground-based Application:** Spray equipment must be adjusted so that the volume median diameter (VMD) is between 8 and 30 microns ( $8 \le Dv \ 0.5 \le 30$  um) and that 90% of the spray is contained in droplets smaller than 50 microns ( $Dv \ 0.9 < 50$  um). 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

BIOMIST\_22ULV.doc DRAFT LABELING 061229.8329.63

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.

Aerial Equipment: Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 um) and that 90% of the spray is contained in droplets smaller than 115 microns (Dv 0.9 < 115 um). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable 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.

## GROUND ULV APPLICATION

Apply BIOMIST® 2+2 ULV through standard ULV cold aerosol or non-thermal aerosol (Cold Fog) generators undiluted at a flow rate of 9.0 to 36.0 fluid ounces per minute at an average vehicle speed of 10 mph. If a different vehicle speed is used, adjust rate accordingly. An accurate flow meter must be used to ensure the proper flow rate. BIOMIST® 2+2 ULV may also be applied by diluting with a suitable solvent such as mineral oil and applying so as not to exceed the maximum 0.007 pounds permethrin per acre.

Vary flow rate according to vegetation density and mosquito population. Use higher flow rate in heavy vegetation or when populations are high.

Permethrin Pounds/acre	Application Rates FLoz./Min.		Fl.oz. BIOMIST® 2+2	
r ounus/acre	5 MPH	10 MPH	15 MPH	ULV per acre
0.007	18.0	36.0	-	6.0
0.0035	9.0	18.0	27.0	3.0
0.00175	4.6	9.0	18.0	1.6

#### THERMAL AEROSOL FOGGING

Apply BIOMIST® 2+2 ULV undiluted through truck mounted thermal fogging equipment. Do not exceed the maximum rates. May be applied at speeds of 5 mph to 20 mph. To reduce oil requirement and sludge buildup in equipment, use 100-second viscosity mineral "fog" oil. For use with hand carried foggers, use same rates of active ingredient per acre. Do not wet foliage since oil base formulations may be phytotoxic. Do not fog when wind conditions exceed 10 mph. Use a clean, well-maintained and properly calibrated fogger. Fog downwind.

#### **BARRIER APPLICATIONS**

Apply BIOMIST® 2+2 ULV through non-thermal ULV portable backpack equipment adjusted to deliver ULV particles of 50 to 100 microns VMD. Use 76 fl.oz. of the undiluted spray per acre (equal to 0.1 lb permethrin/acre) as a 50-ft. (15.2 m) swath while walking at a speed of 2 mph. May also be applied diluted; make sure that the same amount of permethrin is applied per acre.

# **AERIAL APPLICATION**

BIOMIST® 2+2 ULV may be applied undiluted at rates up to 6.0 fluid ounces BIOMIST® 2+2 ULV per acre by fixed wing or rotary aircraft equipped with suitable ULV application equipment. Aerial application shall be made at altitudes ranging from 75 to 300 feet. Aerial applications shall only be made when recommended by public health officials and trained personnel of mosquito abatement districts and other mosquito control programs.

**PROHIBITION ON AERIAL USE:** Not for aerial application in Florida unless specifically authorized by the Bureau of Entomology, Florida Department of Agriculture and Consumer Services.

# STORAGE & DISPOSAL

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

**PESTICIDE STORAGE AND SPILL PROCEDURES:** Store product in its original labeled container in a cool, dry locked place designated for such insecticides and out of reach of children. Avoid exposure to extreme temperatures. In case of spillage, soak up with absorbent material such as sawdust or fuller's earth; sweep up and place in a labeled container and dispose of as follows.

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

**CONTAINERS LARGER THAN ONE GALLON**: (Metal) Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved by state and local procedures. (Plastic) Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IN CASE OF MEDICAL EMERGENCY, CALL THE INTERNATIONAL POISON CONTROL CENTER 1-800-214-7753 IN CASE OF TRANSPORTATION EMERGENCY, CALL INFO-TRAC 1-800-553-5053

#### FOR MORE INFORMATION CALL: 1-800-323-5727

NOTICE: To the extent provided by law, seller makes no warranty, expressed or implied concerning the use of this product other than as indicated on the label. Buyer assumes all risk of use and/or handling of this material when use and/or handling is contrary to label instructions.

BIOMIST® is a Registered Trademark of Clarke Mosquito Control Products, Inc.

BIOMIST\_22ULV.doc DRAFT LABELING 061229.8329 63