

8329-18

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



OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Ms. Karen Larson  
Clarke Mosquito Control  
159 North Garden Avenue  
P.O. Box 72197  
Roselle, IL 60172

JAN 24 2001

Subject: Mosquitomist Two U.L.V.  
EPA Reg. No. 8329-18  
Submission dated 12/5/2000

Dear Ms. Larson:

The revised product labeling referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable, with the following comments:

- As per PR Notice 93-1 regarding Restricted Use Classification, the Restricted Use box must be placed at the very top of the front panel of the label, before the product name.
- The label must indicate that the product is for outdoor use only.

Submit one copy of the final printed label before releasing the product for shipment.

A stamped copy of the label is enclosed for your records. If you have questions about this label review, please contact Ann Hanger at (703) 308-8036 or electronically at [Hanger.Ann@EPA.gov](mailto:Hanger.Ann@EPA.gov).

Sincerely,

Dennis McNeilly, Chemist  
Insecticide-Rodenticide Branch  
Registration Division (7505C)



# MOSQUITOMIST TWO

For application by public health officials, personnel of mosquito abatement district government agencies or personnel under contract to these entities. An emulsifiable control adult mosquitoes as a ULV spray or may be diluted with water and applied as a residual

## Precautionary Statements

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** May be fatal if swallowed. Avoid breathing spray mist. May cause eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Do not use on crops used for food, forage or pasture.

### STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center. Do not induce vomiting because of aspiration hazard.  
 If on Skin: Wash thoroughly with soap and water.  
 If in Eyes: Flush with plenty of water. Get medical attention if irritation persists  
 Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Atropine by injection is antidotal only if symptoms of cholinesterase inhibition are present. 2-PAM is also antidotal when given in conjunction with atropine.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, fish, and aquatic invertebrates. Clean up spilled product to reduce exposure to wildlife. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

### PHYSICAL AND CHEMICAL HAZARDS

Do not 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.

### CONDITIONS and RATES to USE for MOSQUITO CONTROL

Amount to Use Per Acre		Number Acres 1 gallon of MOSQUITOMIST TWO Will Treat	Area to be Treated
MOSQUITOMIST TWO (fluid ounces)	Chlorpyrifos pounds		
<b>Adult-Ground U.L.V.</b>			Tire Piles Use Directions Dilute 16 fl. oz. of MOSQUITOMIST in 3 gallons of water to make a 1% chlorpyrifos mixture. Apply as a coarse spray. Be sure to cover entire exposed area of pile.
0.66 to 1.6	0.01 to 0.024	194 to 80	
<b>Adult Aerial U.L.V.</b>			
0.66 to 1.6	0.01 to 0.024	194 to 80	
<b>Adult-Vegetative cover-Coarse Area Spray</b>			
Light to Medium			
1.5	0.024	80	
Medium to Heavy			
3.2	0.05	40	

**RESTRICTED USE**  
 For retail sale to and use only by Certified Applicators or persons under the direct supervision and only for those uses covered by the Certified Applicators Certification.

**ACTIVE INGREDIENT:**  
 Chlorpyrifos [0,0-diethyl 0-(3, 5, 6, -trichloro-2-pyridyl) phosphorothioate] ..... 24.60%  
 Inert Ingredients ..... 75.40%  
**100.00%**

**KEEP OUT OF REACH OF CHILDREN.**  
**WARNING**  
 MAY BE FATAL IF SWALLOWED  
 MAY CAUSE IRRITATION  
 Avoid breathing of mist  
 Avoid contact with skin or eyes. In case of contact, flush skin or eyes with plenty of water.  
 Wash thoroughly after handling.  
 Do not contaminate food or feed products.  
 SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

MANUFACTURED BY  
**CLARKE MOSQUITO CONTROL PRODUCTS, INC.**  
 159 N. GARDEN AVENUE • ROSELLE, ILLINOIS 60172  
 E.P.A. EST. No. 83291L01  
 E.P.A. Reg. No. 6329-18

**NET CONTENTS**  
 NOTICE: Seller makes no warranty, expressed or implied concerning the use of this product other than 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.  
**FOR MORE INFORMATION CALL:**  
**1-800-323-5727**

## RECOMMENDED FOR USE BY ADULT MOSQUITO ABATEMENT DISTRICTS

CLARKE'S MOSQUITOMIST TWO U.L.V. in residential, recreational areas

**U.L.V. Nonthermal Aerosol (Cold Fog) Application:** Apply Cold Fog (Low Volume) ground applicator capable of producing a nonthermal aerosol of mass medium diameter (MMD) of 10 to 20 microns. To determine droplet size, use a laser diffraction particle sizer or other appropriate equipment to deliver CLARKE MOSQUITOMIST TWO U.L.V. at a dosage rate of 0.024 pounds per acre on an effective swath width of 300 feet. To obtain this rate apply the product at a vehicle speed of 10 mph. Under normal residential use, if a vehicle speed is used, adjust rate accordingly. An accurate flow meter should be used to mount the U.L.V. applicator so that the nozzle is at least 4 1/2 feet above the ground. At an altitude of 300 ft. and a forward speed of 150 miles per hour, achieve a fluid ounces per minute to achieve a dosage rate of 0.024 pounds of U.L.V. This product may also be diluted with a suitable diluent such as water, as long as the maximum rate of active ingredient per acre does not exceed 0.024 pounds per acre.

**IN FLORIDA:** Do not apply by aircraft except in emergency situations. For more information, contact the Florida Department of Agriculture and Consumer Services.

- Directions for Determining the Droplet Size and MMD of U.L.V.:**
- For measurement using glass microscope slides (1 x 3 inches) coated with a solution of one part silicone to 9 parts of acetone, allow to dry. Dip slides in the aerosol cloud perpendicular to the path of aerosol movement. Collect droplets on slides. Determine droplet size and calculate MMD by the following:
    - Using a microscope with an eyepiece micrometer and 450 x magnification, count droplets on each slide.
    - Tabulate the number of droplets (N) falling within each size category.
    - Multiply D x N for each size category.
    - Divide D x N for each size category by the sum of the products of D x N for all size categories. The result represents the total percentage of droplets in that size category.
    - Determine the accumulative percentage for each size category by starting with the smallest size category.
    - Determine the size category that most closely corresponds to the 50% in eyepiece divisions.
    - Convert the above MMD to microns by determining the number of eyepiece divisions multiplied by the estimated MMD in eyepiece divisions.
    - The MMD determined in Step 7 must then be corrected for spray factor. The value thus calculated is the true MMD in microns.
- NOTE:** Measure droplet size and determine MMD when the applicator is used after every 50 hours of operation.

- STORAGE AND DISPOSAL:**
- PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal.
  - PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinse water that cannot be used should be disposed of according to applicable Federal, State or local procedures.
  - CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or other approved State and local procedures. Puncture container before disposal.
  - GENERAL:** Consult Federal, State or local disposal authorities for additional information.