8329-24 1/24/2001 1/2

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 2 4 2001

Subject: Mosquitomist One U.L.V.
EPA Reg. No. 8329-24
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 comment:

It is understood that the product will only be sold in packages of 15 gallons or larger. Therefore, the net content statement on the label must reflect this change (i.e. delete "5 gal.")

Submit one copy of the revised final printed label before releasing the product for shipment. If you have questions about this label review, please contact Ann Hanger at (703) 308-8036 or electronically at Hanger.Ann@EPA.gov.

Sincerely,

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

MOSQUITOMIST ONE

CLARKE

For application by public health officials, personnel of mosquito abatement districts and oth agencies or personnel under contract to these entities. For Use Outdoors to control adult mo and Recreational Areas.

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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

CLARKE MOSQUITOMIST ONE U.L.V. is recommended for application either as a thermal fog or as an ultra low volume (U.L.V.) nonthermal aerosol (cold fog) to control adult mosquitoes in residential and recreational areas and other non-cropland areas where these insects are a problem. For best results treat when mosquitoes are most active and weather conditions are conducive to keeping the fog close to the ground, e.g. cool temperatures and wind speed not greater than 10 mph. Application during the cool hours of the night or early morning is usually preferable. Repeat treatment as needed.

with COMMENTS
In EPA Letter Dated: JAN 24 2001
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 8329-24

ACTIVE INGREDIENT:
Chlorpyrifos [0.0-diethyl 0-(3, 5, 6, -trichloro-2-pyridyl) phosphorothioate] 12.82%
INERT INGREDIENTS 86.00%

Contains one pound chlorpyrifos per gallon
Contains petroleum distillates

TO BE APPLIED ONLY BY OR UNDER THE SUPERVISION OF PUBLIC HEALTH ORGANIZATIONS, MOSQUITO ABATEMENT DISTRICTS OR CERTIFIED PEST CONTROL APPLICATORS.

CAUTION

KEEP OUT OF REACH OF CHILDREN.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center. Do not induce vomiting because of aspiration hazard. Do not give anything by mouth to an unconscious person.

If on Skin: Wash thoroughly with soap and water. Get medical attention.

If in Eyes: Flush with plenty of water. Get medical attention if irritation persists.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

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.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

MANUFACTURED BY
CLARKE MOSQUITO CONTROL PRODUCTS, INC.
169 N. GARDEN AVENUE • ROSELLE, ILLINOIS 60172
E.P.A. EST. No. 8329IL01
E.P.A. Reg. No. 8329-24

NET CONTENTS 5 GAL.

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.

Thermal Fog Application: To prepare a fog solution, thoroughly mix 9 gallons of CLARKE MOSQUITOMIST ONE U.L.V. in 91 gallons of No. 2 fuel oil or other fuel, diesel or kerosene-type oil suitable for insecticide and fogging use. Apply the finished fog solution with any standard thermal fog machine calibrated to deliver 52.5 gallons per hour at an average vehicle speed of 5 mph to cover a swath of up to 300 feet.

U.L.V. Nonthermal Aerosol (Cold Fog) Application: Apply CLARKE MOSQUITOMIST ONE U.L.V. using any standard U.L.V. ground applicator capable of producing a nonthermal aerosol spray with droplets ranging in size from 5 to 30 microns and a mass median diameter (MMD) of 10 to 15 microns. To determine droplet size and MMD follow the accompanying directions. Calibrate the equipment to deliver CLARKE MOSQUITOMIST ONE U.L.V. at a dosage equivalent to 0.005 to 0.01 pounds of chlorpyrifos per acre based on an effective swath width of 300 feet. To obtain this rate apply the product undiluted at a flow rate of 3.88 to 7.75 fluid ounces per minute and an average vehicle speed of 10 mph. Under normal residential conditions a flow rate of 4.3 fluid ounces is recommended. If a different vehicle speed is used, adjust rate accordingly. An accurate flow meter must be used to ensure the proper flow rate. For proper application, mount the fog applicator so that the nozzle is at least 4 1/2 feet above ground level and directed out the back of the vehicle. Failure to follow the above directions may result in reduced effectiveness and oversize spray droplets, which may deposit on and permanently damage automobile paint. Aerial applications should be done by suitable aerial U.L.V. equipment at an altitude of 300 ft. and a forward speed of 150 miles per hour, achieving an effective swath width of 500 ft. Flow rate should be set at 455 fluid ounces per minute to achieve a dosage rate of .023 pounds of active ingredient per acre (3.0 fluid ounces of MOSQUITOMIST ONE U.L.V.)

IN FLORIDA: Do not apply by aircraft except in emergency situations and with the approval of the Florida Department of Agriculture and Consumer Services.

Directions for Determining the Droplet Size and MMD of U.L.V. Nonthermal Aerosols Using CLARKE MOSQUITOMIST ONE U.L.V.: Collect droplets for measurement using glass microscope slides (1 x 3) inches) coated with silicone (General Electric SC-87 Dri-Film). To prepare the slides, dip in a solution of one part silicone to 9 parts of acetone, allow to dry, polish with lint-free paper tissue, and store in a tight slide box. To collect droplets, wave the treated slides through the aerosol cloud at a distance of 6 feet from the point of discharge, holding the slides perpendicular to the path of aerosol movement. Collect droplets on at least 2 slides and store in a tight slide box until measurements can be made. Determine droplet size and calculate MMD by the following steps.

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6. Determine accumulati MMD in eac
7. Convert the microns in multiplying (Step 6).
8. The MMD d the droplets The value t **NOTE:** Me generator is after every

1. PROHIBIT disposal.
2. PESTICIDE be used ac applicable
3. CONTAINE recycling approved
4. GENERAL approved

IN CASE

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