

Precautiounary 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 atrophine.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Shrimp, crab and fish may be killed at application rates recommended on this label. Do not apply to lakes, streams or ponds where these are considered important resources. Consult your State Fish and Game Department before using this product. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment. Do not contaminate water when disposing of equipment wash waters. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment or residues on plants. Protective information may be obtained from your Cooperative Agricultural Extension Service.

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 (fluid ounces)	Chlorpyrifos (pounds)	Number Acres 1 gallon of MOSQUITOCIDE Will Treat
Larval		
1.6 to 3.2	0.025 to 0.05	80 to 40
Adult-Vegetative cover-Ground U.L.V.		
0.65 to 1.6	0.01 to 0.02	20 to 80
Adult-Aerial U.L.V.		
1.6 to 3.2	0.025 to 0.05	80 to 40
Adult-Vegetative cover-Coarse Area Spray		
Light to Medium		
1.5	0.025	80
Medium to Heavy		
3.2	0.05	40

ACTIVE INGREDIENTS:
Chlorpyrifos [0,0-diethyl 0-(3, 5, 6, -trichloro-2-pyridyl) phosphorothioate] 24.60%
INERT INGREDIENTS 75.40%

Contains Petroleum Distillates.

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

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 CO., INC.
159 N. GARDEN AVENUE
ROSELLE, ILLINOIS 60172

EPA EST No 83291L01

EPA Reg No 8329-18

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.

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FOR MORE INFORMATION CALL:
1-900-323-5727 (Outside Illinois)
1-800-942-2555 (Inside Illinois)

RECOMMENDED FOR AREA CONTROL OF MOSQUITO LARVAE AND ADULTS

CLARKE'S MOSQUITOCIDE is formulated for larval and adult mosquito control in residential, recreational and other non-cropland areas. MOSQUITOCIDE should be applied at a rate of 0.025 lb actual insecticide per acre for larval control in light to medium vegetative cover and 0.05 lb actual insecticide per acre in medium to heavy vegetative cover. For larval control MOSQUITOCIDE should be put into a solution with water and applied by hand can, backpack (such as the Kioritz DM-9), helicopter or fixed wing aircraft. For adult control, MOSQUITOCIDE should be applied undiluted from standard ULV equipment such as the Leco HD aerosol generator or by backpack such as the Kioritz DM-9. Application should be done at 10 MPH from truck mounted machines at a flow rate of four (4) fluid ounces per minute. Aerial applications should be done by suitable aerial ULV 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 484 fluid ounces per minute to achieve a dosage rate of 0.05 pounds of active ingredient per acre (3.2 fluid ounces of MOSQUITOCIDE). U.L.V. non-thermal aerosol (cold fog) should be allowed to drift through non-crop target areas on breeze of 2-10 MPH. This will achieve a rate of 66 fluid ounces per acre or 0.1 pounds of chlorpyrifos based on effective swath width of 300 ft. MOSQUITOCIDE may also be applied as an area spray for control of adult mosquitoes by backpack or mist blower. The higher dosage rates of 0.025 to 0.05 pounds of active ingredient per acre found on the table under coarse spray should be used for this application. Repeat application as determined by mosquito populations.

Directions for Determining the Droplet Size and MMD of U.L.V. Nonthermal Aerosols Using CLARKE - DURSBAN MOSQUITOCIDE: Collect droplets for measurement using glass microscope slides (1 - 3 inches) coated with silicone (General Electric SC-87 Ori-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 measurement can be made. Determine droplet size and calculate MMD by the following steps:

- Using a microscope with an eyepiece micrometer and 450 x magnification, measure the diameter (D) in eyepiece divisions of 100 impinged droplets on each slide.
 - Tabulate the number of droplets (N) falling within each size category (as measured in eyepiece divisions).
 - Multiply D · N for each size category.
 - Divide D · N for each size category by the sum of the products of D · N, i.e. $\sum(D \cdot N)$. The values obtained are the percent that each size category represents of the total.
 - Determine the accumulative percentage for each size category by accumulative addition of the percentage values calculated in Step 4, starting with the smallest size category.
 - Determine the size category that most closely corresponds to an accumulative percentage of 50%. This value is the approximate MMD in eyepiece divisions.
 - Convert the above MMD to microns by determining the number of microns in one eyepiece division using a stage micrometer and multiplying this value by the estimated MMD in eyepiece divisions (Step 6).
 - The MMD determined in Step 7 must then be corrected for spread of the droplets on the slides by multiplying by 0.49 (the spread factor). The value thus calculated is the true MMD in microns.
- NOTE:** Measure droplet size and determine MMD when the aerosol generator is first installed, after any modifications or adjustment, and after every 50 hours of operation.

STORAGE AND DISPOSAL

- PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
- PESTICIDE DISPOSAL:** Pesticide spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.
- CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer recycling or reconditioning, or dispose of in a sanitary landfill, or by other approved state and local procedures.
- GENERAL:** Consult Federal, State or local disposal authorities for approved alternative procedures.