

V37

Specimen Label

Mosquito Fogging Concentrate Insecticide

For Application Only By Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Public Mosquito Programs. ~~Sale to or Use By Persons Owning or Occupying a Dwelling is Strictly Prohibited.~~

Active Ingredient(s):

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate]

Inert Ingredients

Contains 6 pounds of chlorpyrifos per gallon

E.P.A. Registration No. 464-428

E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO:

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

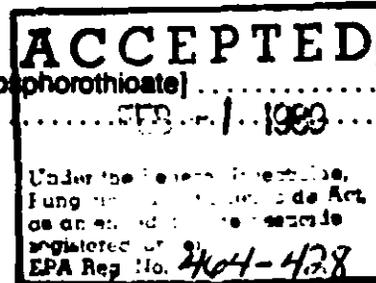
PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals
MAY BE FATAL IF SWALLOWED •
EXCESSIVE ABSORPTION THROUGH SKIN
MAY BE FATAL • CAUSES EYE IRRITATION •
MAY CAUSE SKIN IRRITATION

Do Not Get In Eyes, On Skin Or Clothing •
Avoid Breathing Vapors • Handle
Concentrate In A Ventilated Area • Wear
Protective Clothing And Chemically
Resistant Gloves When Handling • Wash
Thoroughly With Soap And Water After
Handling And Before Eating Or Smoking •
Remove Contaminated Clothing And Wash
Before Reuse • Keep Away From Food,
Feedstuffs And Water Supplies

STATEMENT OF PRACTICAL TREATMENT: If Swallowed:
Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person. **If On Skin:** Immediately wash with plenty of soap and water. Get medical attention. **If In Eyes:** Flush with plenty of water for 5 minutes. Get medical attention if irritation persists. **If Inhaled:** Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/ praloxim, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute



62.5%

61.5%

38.5%

37.5%

poisoning, use antidote immediately after establishing an open airway and respiration.

Physical or Chemical Hazards

COMBUSTIBLE • Do Not Use or Store Near Heat or Open Flame. • Do Not Cut or Weld Container.

Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of waste. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

NOTICE

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

Delete

Mosquito Fogging Concentrate

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Mosquito Fogging Concentrate 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 3 mph. Application during the cool hours of the night or early morning is usually preferable. Repeat treatment as needed.

Thermal Fog Application: To prepare a fog solution, thoroughly mix 2 gallons of Mosquito Fogging Concentrate in 98 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 40 gallons per hour at an average vehicle speed of 5 mph to cover a swath width of up to 300 feet.

U.L.V. Nonthermal Aerosol (Cold Fog) Application: Apply Mosquito Fogging Concentrate 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 Mosquito Fogging Concentrate at a dosage equivalent to 0.005 to 0.01 lb 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 $\frac{1}{8}$ to $1\frac{1}{2}$ fluid ounce per minute and an average vehicle speed of 10 mph. If a slower vehicle speed is used, reduce the flow 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 $4\frac{1}{2}$ feet above ground level and directed out the back of the vehicle. Failure to follow all of the above directions may result in reduced effectiveness and oversize spray droplets, which may deposit on and permanently damage automobile paint.

Directions for Determining the Droplet Size and MMD of U.L.V. Nonthermal Aerosols Using Mosquito Fogging Concentrate: 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 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:

1. Using a microscope with an eyepiece micrometer and 450X magnification, measure the diameter (D), in eyepiece divisions, of 100 impinged droplets on each slide.
2. Tabulate the number of droplets (N) falling within each size category (as measured in eyepiece divisions).
3. Multiply D x N for each size category.
4. Divide D x N for each size category by the sum of the products of D x N, i.e. $\Sigma (D \times N)$. The values obtained are the percent that each size category represents of the total.

5. 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.
6. Determine the size category that most closely corresponds to an accumulative percentage of 50%. This value is the approximate MMD in eyepiece divisions.
7. 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).
8. 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 modification or adjustment, and after every 50 hours of operation.

STORAGE AND DISPOSAL

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

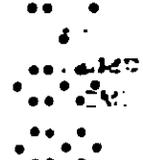
Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. Storage below 25°F may result in formation of crystals. If product crystallizes, store at 72°F to 90°F and agitate to redissolve crystals. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinse is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.



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When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company.

(1) Refund of purchase price paid by buyer or user for product bought, or

(2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

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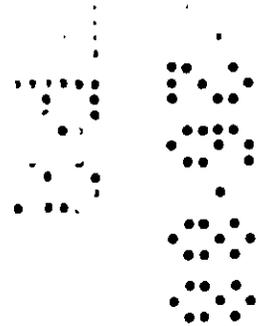
~~DIAMOND: FLAMMABLE LIQUID
(WITH NUMBER)~~ → DELETE

**RQ/INSECTICIDE LIQUID N.O.S.
(Chlorpyrifos)
NA1993 F.P. 73-100 DEG. F**



THE DOW CHEMICAL COMPANY
Midland, Michigan 48674 U.S.A.

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