



SPECI

MOSQUITO FOGGING CONCENTRATE

For Application Only By Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Public Mosquito

ACTIVE INGREDIENTS

Chlorpyrifos O,O-diethyl O-(3,5,6-trichloro-2-pyridyl)phosphorothioate 61.5%
Xylene 34.5%

INERT INGREDIENTS

Contains 6 pounds chlorpyrifos per gallon. 4.0%
E.P.A. Registration No. 464-428

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

AGRICULTURAL CHEMICAL

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

PRECAUCION AL USUARIO

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

USE DIRECTIONS

DOW 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-crop 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 speeds 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 DOW Mosquito Fogging Concentrate in 98 gallons of No. 2 (or all) 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 velocity speed of 5 mph to cover a swath width of up to 300 feet.

U.L.V. Nonthermal Aerosol (Cold Fog) Application: Apply DOW 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. Cal-

culate the mass median diameter (MMD) of the spray using a glass microscope slide measurement using glass microscope slides (General Electric SC-87 Dri-Film). To prepare the slides, mix 9 parts silicone to 1 part silicone to 9 parts of acetone, and store in a tight slide box. To collect the aerosol cloud at a distance of 6 feet, hold the slides perpendicular to the path of the spray. Collect droplets on at least 2 slides and store in a tight slide box. Determine droplet size and calculate MMD. Using a microscope with an eyepiece, measure the diameter (D) in eyepiece divisions on each slide.

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

1. Measure the diameter (D) in eyepiece divisions on each slide.

2. Tabulate the number of droplets (N) 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.

5. Determine the accumulative percentage addition of the percentage value of the smallest size category.

6. Determine the size category that represents the size category that corresponds to an accumulative percentage of 50%.

7. Convert the above MMD to microns by dividing 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 be corrected for spread of the droplets on the slides by multiplying by 0.4 (the spread factor). The value thus calculated is the true MMD in microns.

MMD of U.L.V. Nonthermal Aerosols Using DOW Mosquito Fog Concentrate

Collect droplets for 10 minutes on slides coated with silicone des. dip in a solution of one part silicone to 9 parts of acetone, and store in a tight slide box. To collect the aerosol cloud at a distance of 6 feet, hold the slides perpendicular to the path of the spray. Collect droplets on at least 2 slides and store in a tight slide box. Determine droplet size and calculate MMD. Using a microscope with an eyepiece, measure the diameter (D) in eyepiece divisions on each slide.

2. Tabulate the number of droplets (N) 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.

5. Determine the accumulative percentage addition of the percentage value of the smallest size category.

6. Determine the size category that represents the size category that corresponds to an accumulative percentage of 50%.

7. Convert the above MMD to microns by dividing 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 be corrected for spread of the droplets on the slides by multiplying by 0.4 (the spread factor). The value thus calculated is the true MMD in microns.

Note: MMD is droplet size in microns. MMD is the diameter of the droplet in microns.

WARNING: Swims, crab and fish may be killed on this label. Do not apply to water where these are important. Specified on this label.

USE PRECAUTION: This product is toxic to fish, wildlife and birds. Do not apply to water where these are important. Specified on this label.

and bury them and wastes in receptacles.

WARNING

KEEP OUT OF REACH OF CHILDREN

MAY BE FATAL IF SWALLOWED

MAY BE ABSORBED THROUGH SKIN

MAY BE IRRITATING TO EYES, NOSE AND THROAT

COMBUSTIBLE

Avoid contact with eyes and skin. Wash promptly and wash contaminated clothing with plenty of water and get medical attention. Keep away from water supplies. Keep container closed and do not use, pour, spill or dump.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. It may cause symptoms of cholinergic poisoning. Symptoms include: sweating, salivation, lacrimation, miosis, bradycardia, bronchospasm, and respiratory distress. Treatment: Atropine, 1-2 mg, every 3-4 hours, until symptoms improve. Supportive care as needed.

NOTICE: This product is a pesticide. It is not to be used for any other purpose. It is not to be used in or around homes, schools, or other places where children are present. It is not to be used in or around water supplies. It is not to be used in or around food or feed. It is not to be used in or around livestock. It is not to be used in or around wildlife. It is not to be used in or around birds. It is not to be used in or around fish. It is not to be used in or around aquatic life. It is not to be used in or around plants. It is not to be used in or around animals. It is not to be used in or around humans. It is not to be used in or around the environment. It is not to be used in or around the world.

THE DOW CHEMICAL COMPANY

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Net Contents

Lot

36-1250 PRINTED IN U.S.A. IN DECEMBER, 1974

REPLACES SPECIMEN LABEL 86-1250 PRINTED IN AUGUST, 1973

REVISIONS INCLUDE: (1) EPA ESTABLISHMENT NUMBER ADDED
(2) AGRICULTURAL CHEMICAL STATEMENT ADDED (3) SPANISH WARNING STATEMENT ADDED

ACCEPTED

Feb 19, 1975

464-428

