

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE

51036-121

September 9, 1987

TERM OF ISSUANCE

Until Reregistration

NAME OF PESTICIDE PRODUCT

Chlorpyrifos U.L.V.
Mosquito Concentrate

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Micro-Flo Company
Route 1, Box 190
Sparks, GA 31647

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 51036-121" to your label before you release the product for shipment.
3. A 1-year storage stability study must be submitted for this product. This study must be submitted within 15 months from the date of this registration.
4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Dennis H. Edwards

DATE

9/9/87

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Dennis H. Edwards, Jr.
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosures

1/30

(Center Panel)

CHLORPYRIFOS U.L.V.
MOSQUITO CONCENTRATE

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

ACTIVE INGREDIENTS:

| | |
|---|-------|
| Chlorpyrifos (0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate) | 61.5% |
| INERT INGREDIENTS*..... | 38.5% |

*Contains xylene range aromatic solvent
CONTAINS 6 POUNDS OF CHLORPYRIFOS PER GALLON

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person.
IF IN EYES: Flush with water for 15 minutes. Call a physician.
IF ON SKIN: Remove contaminated clothing and immediately wash skin with soap and water.

See Side Panel For Additional Precautionary Statements

EPA Reg. No. 51036-RER

EPA Est. No. 51036-GA-1

Manufactured By:
MICRO FLO COMPANY
ROUTE 1 BOX 190
SPARKS, GEORGIA 31647

NET CONTENTS: _____

ADJUSTED
with COMMENTS
in EPA Letter Dated

SEP 9 1987

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended by the FIFRA Act
Registered under EPA Reg. No.

51036-121

(Left Panel).

PRECAUTIONARY STATEMENTS

Hazards To Humans and Domestic Animals

WARNING! May be fatal if swallowed. May be fatal if absorbed through skin or clothing. Do not get in eyes, on skin or clothing. Avoid breathing of vapors. Wash thoroughly after handling. Do not wear contaminated clothing. Keep away from food, feedstuffs and water supplies.

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

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish, birds, and other wildlife. 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 wastes.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE! Do not use or store near heat or open flame. Do not cut or weld container.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
STORAGE: Storage below 23 degrees F may result in formation of crystals. If product crystallizes out of solution, store at 72 degrees F to 90 degrees F and agitate to redissolve crystals.
PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate 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 incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Right Panel)

Chlorpyrifos U.L.V. Mosquito 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 APPLICATIONS: To prepare a fog solution, thoroughly mix 2 gallons of Chlorpyrifos U.L.V. Mosquito 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 Chlorpyrifos U.L.V. Mosquito 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 Chlorpyrifos U.L.V. Mosquito 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 2/3 to 1-1/3 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 4-1/2 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 CHLORPYRIFOS U.L.V. MOSQUITO 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.

- P-10
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, ie. (D x 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.

CONDITIONS OF SALE

All statements concerning the use of this product apply only when used as directed. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL. Read all directions carefully.

DIAMOND: FLAMMABLE LIQUID (WITH NUMBER)

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