### **Precautionary Statements**

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing Avoid breathing of mist. Do not contaminate food or feed products. Wash thoroughly with soup and water after handling

### STATEMENT OF PRACTICAL TREATMENT

If Swallowed DO NOT INDUCE VOMITING Vomiting may cause aspiration pneumonia. Call a physician or Poison Control Center immediately. Gastric lavage is indicated if material was taken internally. Do not give anything by mouth to an unconscious person

If On Skin. Remove contaminated clothing and wash affected areas with soan aid water NOTE TO PHYSICIAN: Chlorovritos is a cholinesterase inhibitor. Treat symptomatically if exposed, plasma and red blood cell cliplinesterase tests may indicate significance of exposure (baseline data are useful). Alropine, 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 antidote immediately after establishing an open airway and respiration.

#### ENVIRONMENTAL HAZARDS

This product is toxic to birds and wildlife and is extremely toxic to fish and aquatic organisms. Do not apply directly to water or wellands (swamps, bogs, marshes, and potholes). Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent areas. Cover or incorporate soills. Do not contaminate water when disposing of egy pment washwaters. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area

# PHYSICAL OR CHEMIC THE P T E D

Do not use or store pear heat or open flame

07 MAR 1995

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its' labeling. Do not allow spray treatment to drift by nasturerant conclete involution. ranges or water supplies. Do not use on crops used for loggitive and Reclumication Act.

EPA EST No 83291L01 EPA Reg No 8329-36

registered under EPA Reg. No. 8229.30

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

#### **ACTIVE INGREDIENTS:** Chlorovritos 10 0-diethyl 0-(3, 5, 6, -trichloro-2-pyridyl) phosphorothloate] ..... 12 00% \*Permethrin (3-Phenoxyphenyllmethyl (\*) cis. trans-3-(2.2-dichlorethenyl)-2.2-dimethylcyclopropanecarboxylate ....... 4 00% INERT INGREDIENTS ..... 84 00%

100.00%

\*Cis/trans isomer ration, min, 35% (+) cis. and max 65% (+) trans

Contains Petroleum Distillates

Contains 90 pounds of Chlorpyrilos and 30 pounds of Permethrin per gation

**KEEP OUT OF REACH OF** CHILDREN CAUTION

## CONDITIONS and RATES to USE for MOSQUITO CONTROL

ULV MOSQUITO MASTER 412 is recommended for application as an ultra low volume (U.L.V.) nonthermal aerosol (cold log) to control adult mosquitoes in residential and recreational 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 5 mph. Application during the cool hours of the night or early is usually preferable. Repeat treatment as needed. Do not apply product within 100 feet (30 meters) of lakes and streams

MANUFACTURED BY

### **CLARKE MOSQUITO CONTROL** PRODUCTS, INC.

JUN GARDEN AVENUE FOSELLE, ILLINOIS 60172

as demanded, for the posticide 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

BEST AVAILABLE COPY.

U.L.V. Non-thermal Aerosol (Cold Fog) Application: To control mosquitoes apply ULV 412. using any standard ULV ground applicator capable of producing non-UITO MASTER thermal zerosol spray with droplets ranging in size from 5 to 30 microns and a Mass Median Diameter (MMD) of 10 to 20 microns. Apply the product undiluted at 4.5 to 18 fluid ounces per minute at an average vehicle. speed of 10 mph. This is equivalent to .005 to .021 pounds of chloropyrifos and .0017 to .007 pounds of permethrin per acre. If a different vehicle speed is used, adjust rate accordingly. Vary !! according to vegetation density and mosquito population. Use higher flow rate in heavy vegewhen populations are high. An accurate flow meter must be used to ensure the proper flow race in or proper application, mount the fog applicator so that the nozzle is at least 4% feet above ground level and directed out the back of the vehicle. Failure to follow the above directions may result in reduced effectiveness. Aerial applications should be done by suitable aerial U.L.V. equipment capable of producing droplets with an MMD of 50 microns or less with no more than 2.5% exceeding 100 microns Flow rate and swath width should be set so as to achieve 3.0 fluid ounces of ULV MOSOUITO MASTER 412 per acre. Application should be made when wind is less than 5 MPH. Do not apply directly to lakes. ponds or streams

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. Nonthermat Aerosols Using CLARKE® U.L.V. MOSQUITÓ MASTER 412: Collect droplets for measurement using plass microscope slides (1 = 3 inches) coated with silicone (General Electric SC 87 Dri-Film). To prepare the stides, 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 fight slide box. To collect dispolets, 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 gronings on at least 2 stides and store in a light slide box until measurements can be made. Determine dropp, "size and calculate MMO by the fallowing steps

- Using a microscope with an eyepiece micrometer and 450 % magnification, measure the diameter (D), in eveniece divisions of 100 impinged droplets on each slide
- 2. Tabulate the number of droplets (N) falling within each size category 'as measured in everyece divisions).

3 Multiply D = N for each size category

- 4 Divide  $D \times N$  for each size category by the sum of the products of  $D \times I \in \Sigma(D \times N)$ . 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 percent 50%. This value is the approximate MMD in eveniece divisions.
- 7. Convert the above MMD to microns by determining the number of microns in one even-ece. division using a stage micrometer and multiplying this value by the estimated MMD in eveniece divisions (Step 6).
- B. The MMD determined in Siep 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 MMO in

NOTE: Measure droplet size and determine MMD when the aerospl generator is first installed after any modifications or adjustment, and after every 50 hours of application

### STORAGE & DISPOSAL

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

PESTICIDE STORAGE AND SPILL PROCEDURES: Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand sawdust earth fuller's earth etc. Dispose of with chemical waste

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of an site or an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent) then offer for recycling or renords coing, or puncture and dispose of in a sanitary landfill, or by other approved state and local princed, res-

CONTAINERS ONE GALLON AND SMALLER: Do not reuse container. Wrap containers in several layers of newspaper and discard in trash

CONTAINERS LARGER THAN ONE GALLON: Metal Containers - Triple tinse or equivalent Then offer for recycling or reconditioning, or puncture and dispose of in a sandary fandful, or by other procedures approved by state and local authorities. Plastic Containers -- Triple riose or egosys ent. Then offer for recycling or reconditioning or plineture and dispose of in a sanitary tall this line by the next onor if allowed by state and local authorities, by burning. If burned, stay out of smoke, then dispose, the a sanitary landfill or by other approved state and local procedures.