

AUG 29 1990

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Mr. A. Kevin Magro  
Clarke Mosquito Control Products  
159 Garden Ave  
P.O. Box 72288  
Roselle, IL 60172

Dear Mr. Magro:

Subject: Amendment - Updated Confidential Statement of  
Formula/Revised Labeling  
ULV Mosquito Master 412  
EPA Registration No. 8329-36  
Your Application Dated April 9, 1990

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes indicated below prior to release for shipment of product bearing the amended labeling.

1. Make the following changes to the label ingredient statement:
  - a. Delete "w/w" from the percentages since weight by weight is implied.
  - b. Add a footnote to PERMETHRIN indicating: \* cis/trans isomer ration: min. 35%(+)cis and max. 65%(+)trans."

Submit five copies of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

Sincerely,

George T. LaRocca  
Product Manager 15  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

Enclosure

## 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 soap 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 soap and water.

**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 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 wetlands (swamps, bogs, marshes, and potholes). Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent areas. Cover or incorporate spills. Do not contaminate water, streams, rivers, or equipment washwaters. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment or 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 CHEMICAL HAZARDS

Do not use or 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. Do not allow spray treatment to drift on pastureland, cropland, ranges, or water supplies. Do not use on crops used for food, forage, or pasture.

EPA EST No 83291L01

EPA Reg. No 8329-36

**BEST AVAILABLE COPY**

FOR MORE INFORMATION CALL

1-800-323-5727 (Outside Illinois)

1-800-942-2555 (In Illinois)

#### ACTIVE INGREDIENTS

Chlorpyrifos [0-(3-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate)]

12.00% w/w

Permethrin (3-Phenoxyphenyl)methyl (±) cis trans-3-(2,2-dichloroethyl)-2,2-dimethyl-cyclopropanecarboxylate

4.00%

84.00%

#### INERT INGREDIENTS

100.00% w/w

Contains Petroleum Distillates

Contains 90 pounds of Chlorpyrifos and 30 pounds of Permethrin per gallon

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

#### CONDITIONS and RATES to USE FOR MOSQUITO CONTROL

CLARKE OUTDOOR MASTER 12 is recommended for application as an ultra-low volume (ULV) nonthermal aerosol (cold fog) 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 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 OUTDOOR SPRAYING CO., INC.**  
159 N. GARDEN AVENUE  
ROSELLE, ILLINOIS 60172

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.

NET CONTENTS

ACQUITTED  
WITH COMMENTS

**U.L.V. Non-Thermal Aerosol (Cold Fog)**  
using any standard ULV ground application spray with droplets ranging in size from 20 microns. Apply the product undiluted at a speed of 10 mph. This is equivalent to 0.5 gallons of permethrin per acre. If a different vehicle is used, adjust the application rate according to vegetation density and moisture when populations are high. An accurate flow rate and swath width should be determined. For proper application, mount the fog applicator on the back of the vehicle and directed out the back of the vehicle. Aerial applications should be made producing droplets with an MMD of 50 microns. Flow rate and swath width should be 412 per acre. Application should be made on ponds or streams.

**Directions for Determining MMD (Using Clarke Master 12):** 1. Obtain a glass microscope slide (1 x 1 inches). 2. Prepare the slide by dipping a solution of white paper tissue and for 10 minutes. 3. Mount the slide on a stand at a distance perpendicular to the path of aerosol mist. 4. Expose until measurements can be taken. 5. Following steps:

1. Using a microscope with an eyepiece (D), in eyepiece divisions, of 100 microns.
  2. Tabulate the number of droplets (N) in divisions.
  3. Multiply D x N for each size category.
  4. Divide D x N for each size category to obtain the percent that each size category obtained are the percent that each size category obtained.
  5. Determine the accumulative percent of the percentage values calculated in Step 4.
  6. Determine the size category that is 50%. This value is the approximate MMD.
  7. Convert the above MMD to micron division using a stage micrometer eyepiece divisions (Step 6).
  8. The MMD determined in Step 7 must be multiplied by 0.49 (the spread factor).
- NOTE:** Measure droplet size and diameter after any modifications or adjustments.

#### STORAGE

Do not contaminate water, food or feed. **PESTICIDE STORAGE AND SPILLS:** Avoid exposure to extreme temperatures. Material such as sand, sawdust, earthenware, etc. should be stored in a separate container. **PESTICIDE DISPOSAL:** Wastes should be disposed of in a separate container. **CONTAINER DISPOSAL:** Triple rinse or puncture and dispose of in accordance with local, state, and federal procedures.

**CONTAINERS ONE GALLON AND LARGER:** In several layers of newspaper and other absorbent material. Then offer for recycling or disposal. Do not reuse or refill. **CONTAINERS LARGER THAN ONE GALLON:** Triple rinse or puncture and dispose of in accordance with local, state, and federal procedures.