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8329-38

10/14/97

pg 182
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17

OCT 14 1997

A. Kevin Magro
Clarke Mosquito Control Products, Inc.
159 North Garden Avenue
Roselle, IL 60172

Subject: Biomist® 4+20 ULV
EPA Registration No. 8329-38
Amendment dated June 27, 1997

Dear Mr. Magro:

The Confidential Statement of Formula (CSF), referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. A copy of the CSF (Basic Formulation) dated June 27, 1997, has been placed in our file for the subject product.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the following change to your label:

a. Add the following statement to the ENVIRONMENTAL HAZARDS:

"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."

2. Submit two copies of your final printed labeling before you release the product for shipment.

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 bearing the amended labeling constitutes acceptance of these conditions. A stamped copy of the labeling is enclosed for your records.

Sincerely yours,



for George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

Enclosure

BEwards A: 8329/38.1 10/14/97



BIOMIST® 4+20 ULV

For Application Only By Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Mosquito Control Programs. An All Temperature, Quick Knockdown, Low Odor, Non-Corrosive, Synthetic Pyrethroid for Control of Adult Mosquitoes in Residential, and Recreational Areas. Also For Use Against Biting and Non-Biting Midges and Blackflies.

Precautionary Statements HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not contaminate food or feed products.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Gastric lavage is indicated if material was taken internally. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia.

If Inhaled: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If On Skin: Remove contaminated clothing and wash affected areas with soap and water. Get medical attention if necessary.

Note to Physician: Product contains a petroleum distillate. Gastric lavage is indicated if material was taken internally. Vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not allow spray treatment to drift on pastureland, cropland, poultry ranges or water supplies. Do not contaminate water when disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Flashpoint minimum of 300°F.

DIRECTIONS FOR USE

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

CONDITIONS and RATES to USE for MOSQUITO CONTROL

Permethrin/BAO pounds/acre	Application Rates Fl. oz./Min. ***			Fl. oz. Biomist® 4+20 per acre
	5MPH	10MPH	15MPH	
0.007/0.035	9.0	18.0	27.0	3.0
0.0035/0.0175	4.5	9.0	13.5	1.5
0.00175/0.00875	2.25	4.5	6.75	0.75

BIOMIST® 4+20 ULV is recommended for application as an ultra low volume (U.L.V.) nonthermal aerosol (cold fog) to control adult mosquitoes in residential and recreational areas where these insects are a problem. Do not apply this product within 100 feet (30 Meters) of lakes and streams. Do not allow spray treatment to drift on pastureland, cropland, poultry ranges or water supplies. For best results, apply 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 10 mph. Applications during the cool hours of the night or early morning is usually preferable. Repeat treatment as needed.

ACTIVE INGREDIENTS.

Permethrin (3-Phenoxyphenyl)methyl (±) cis- trans-3-(2,2-dichloroethenyl)-2,2-dimethyl- cyclopropanecarboxylate	4.00%w/w
Piperonyl Butoxide, Technical Equivalent to 80% (butylcarbityl) (6-propylpiperonyl) ether and 20% related compounds	20.00%
INERT INGREDIENTS	76.00%
	100.00%w/w

Contains petroleum distillates

Contains 0.3 pounds of Permethrin and 1.5 pounds
of Piperonyl Butoxide per gallon.

CAUTION

**KEEP OUT OF REACH OF
CHILDREN**

MANUFACTURED BY

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

159 N. GARDEN AVENUE
ROSELLE, ILLINOIS 60172

EPA EST. No. 83291L01
EPA Reg. No. 8329-38

ACCEPTED
with COMMENTS
in EPA Letter Dated

NET CONTENTS

OCT 14 1997

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. For the pesticide registered under EPA Reg. No.

8329-38

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 10 mph. Applications during the cool hours of the night or early morning is usually preferable. Repeat treatment as needed.

U.L.V. Nonthermal Aerosol (Cold Fog) Application: To control Mosquitoes, Midges and Blackflies, apply BIOMIST® 4+20 ULV 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 20 microns. Apply the product undiluted at a flow rate of 4.5 to 18.00 fluid ounces per minute at an average vehicle speed of 10 mph. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to .0017 to .007 pounds of Permethrin and .00875 to .035 pounds of Piperonyl Butoxide per acre. Vary flow rate according to vegetation density and mosquito population. Use higher flow rate in heavy vegetation or when populations are high. 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 4½ 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 BIOMIST® 4+20 ULV per acre. Application should be made when wind is less than 10 MPH.

IN FLORIDA: Do not apply by aircraft except in emergency situations and with the approval of the Florida Department of Agriculture and Consumer Services.

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 on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved state and local procedures.

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 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. Plastic Containers—Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Then dispose of in a sanitary landfill or by other approved state and local procedures.

**FOR MORE INFORMATION CALL:
1-800-323-5727**