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8329-43

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

26 JAN 1993

300,543,4088
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Mr. A. Kevin Magro,
Control Consultant
CLARKE MOSQUITO CONTROL PRODUCTS
159 North Garden Avenue
Roselle, IL 60172

Dear Mr. Magro:

Subject: Letter of Commitment and Revised Labeling
BIOMIST 31 + 66 ULV
EPA Registration Number 8329-43
Your Letters Dated December 10, 1992 and
January 5, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is accepted. A stamped copy of the labeling is enclosed for your record.

This also acknowledges receipt of a letter dated December 10, 1992 committing to rerun the oral toxicity study to support the conditional registration of the subject product.

It has come to our attention that while the label ingredient statement declares 3% inert ingredients, the identity of the inert ingredients is not declared on the confidential statement of formula (CSF) dated November 13, 1992. It appears that the 3% inert ingredient declared in the labeling ingredient statement is petroleum distillates since the label ingredient statement states "Contain Petroleum Distillate." Please explain.

Sincerely,

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

CONCURRENCES							
SYMBOL							
SURNAME	Atkinson						
DATE	1.26.93						

Precautionary Statements
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

If swallowed: 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 and before eating or smoking. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN: Remove contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation persists.

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

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 pounds/acre	Application Rates FL oz./70th.			FL oz. diluted spray per acre
	1000PH	1000PH	1000PH	
0.021	30	60	90	1.0
0.0035	15	30	45	0.5
0.00175	7.5	15	22.5	0.25

ACTIVE INGREDIENTS:

Permethrin (3-Phenylphenyl, methyl(1) cis, trans-3,4,5-trichlorophenyl-2,2-dimethyl-1-cyclopropylcarbamate)	31.60%
Piperonyl Butoxide, Technical	
Equivalent to 80% (butylcarbamyl) (2-propylpiperonyl ether and 20% related compounds)	66.80%
INERT INGREDIENTS	3.99%
	100.00%

Contains petroleum distillates
 Contains 2.00 pounds of Permethrin and 6.0 pounds of Piperonyl Butoxide per gallon

CAUTION

KEEP OUT OF REACH OF CHILDREN

MANUFACTURED BY

CLARKE MOSQUITO CONTROL PRODUCTS, INC.
 150 N. GARDEN AVENUE
 ROSELLE, ILLINOIS 60172

EPA EST. No. 8329M.01
 EPA Reg. No. 8329-43

NET CONTENTS

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.

BIOBEST® 31-05 ULV 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, such as lawns, not limited to parks, cemeteries, woodlands, athletic fields, golf courses, residential areas and municipalities, gardens, playgrounds, recreational areas and overgrown waste areas. 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 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 10 mph. Applications during the cool hours of the night or early morning is usually preferable. Repeat treatment as needed.

ULV, Nonthermal Aerosol (Cold Fog) Application: To control Mosquitoes, Flies and Bees, apply BIOBEST® 31-05 ULV using any standard ULV ground applicator capable of producing a nonthermal aerosol spray with droplets ranging in size from 5 to 20 microns and a mass median diameter (MMAD) of 10 to 20 microns. Apply the product undiluted at a flow rate of 1.0 to 6.0 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 0.0025 to 0.021 pounds of F.M. Permethrin and 0.0075 to 0.0647 pounds of Piperonyl Butoxide per acre. Vary flow rate according to vegetation density and mosquito population. Use higher flow rates in heavy vegetation or when mosquito populations are high. An accurate flow meter must be used to measure the proper flow rate. BIOBEST® 31-05 ULV may also be applied by diluting with a suitable solvent such as mineral oil and spraying so as not to exceed the maximum pounds of active ingredient per acre as shown in the first column of the previous table. The following charts represent some suggested dilution and application rates for ground ULV applications. If an alternate dilution rate is used, adjust flow rate accordingly.

FOR A 1:4 BIOBEST® 31-05 ULV/SOLVENT DILUTION RATIO
 Mix one (1) part BIOBEST® 31-05 with four (4) parts solvent and apply at the following rates:

Permethrin pounds/acre	Application Rates FL oz./70th.			FL oz. diluted spray per acre
	1000PH	1000PH	1000PH	
0.007	3.0	6.0	9.0	1.0
0.0035	1.5	3.0	4.5	0.5
0.00175	0.75	1.5	2.25	0.25

FOR A 1:8 BIOBEST® 31-05 ULV/SOLVENT DILUTION RATIO
 Mix one (1) part BIOBEST® 31-05 with eight (8) parts solvent and apply at the following rates:

Permethrin pounds/acre	Application Rates FL oz./70th.			FL oz. diluted spray per acre
	1000PH	1000PH	1000PH	
0.007	5.0	10.0	15.0	1.0
0.0035	2.5	5.0	7.5	0.5
0.00175	1.25	2.5	3.75	0.25

FOR A 1:16 BIOBEST® 31-05 ULV/SOLVENT DILUTION RATIO
 Mix one (1) part BIOBEST® 31-05 with sixteen (16) parts solvent and apply at the following rates:

Permethrin pounds/acre	Application Rates FL oz./70th.			FL oz. diluted spray per acre
	1000PH	1000PH	1000PH	
0.007	8.0	16.0	24.0	1.0
0.0035	4.0	8.0	12.0	0.5
0.00175	2.0	4.0	6.0	0.25