

8329-42

DATE OF ISSUANCE
DEC - 1 1992

TERM OF ISSUANCE

NAME OF PESTICIDE PRODUCT

BIONIST 30 + 30 ULV

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Reg # 8329-42

PM-13

193

161/5430175
171

CLARKE MOSQ 'ITO CONTROL PRODUCTS
159 NORTH GARDEN AVENUE
ROSELLE, IL 60172

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)(B) since you agreed to:

- 1). Add the phrase, "EPA Registration No. 8329-42" to the labeling before you release the product for shipment.
 - 2). Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data,
 - 3). Submit a repeated dermal sensitization study (GRN §81-6) conducted in accordance with the Agency's Good Laboratory Practice regulations or requirement (GLP) and submit the study to EPA within one (1) year from date of this notice.
- Submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the label has been enclosed for your records.

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

Enclosure:

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

December 1, 1992

CLARKE

Against Biting and Non-Biting Midges and Blackflies.

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye damage/injury. Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or 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 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 In Eyes: Flush with plenty of water. Get medical attention immediately.

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 pasture and 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./Min.			Fl. oz. Biomist® 30-30 per acre
	5MPH	10MPH	15MPH	
0.0185	30	60	90	10
0.0092	15	30	45	0.5
0.0031	0.5	1.0	1.5	0.16

ACTIVE INGREDIENTS

Permethrin (3-Phenoxyphenylmethyl ferrocis- trans-3-(2,2-dichloroethenyl)-2,2-dimethyl- cyclopropanecarboxylate	30.00%
Piperonyl Butoxide, Technical Equivalent to 80% (butylcarbityl) (6-propylpiperonyl) ether and 20% related compounds	30.00%
INERT INGREDIENTS	40.00%
	100.00%

Contains petroleum distillates
Contains 2.52 pounds of Permethrin and 2.52 pounds
of Piperonyl Butoxide per gallon

CAUTION

KEEP OUT OF REACH OF CHILDREN

MANUFACTURED BY

CLARKE MOSQUITO CONTROL PRODUCTS, INC.

159 N. GARDEN AVENUE
ROSELLE, ILLINOIS 60172

EPA EST. No. 83291L01

EPA Reg. No. 8329-

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.

BEST AVAILABLE COPY

BIOMIST® 30-30 ULV is recommended (U.L.V.) nonthermal aerosol (cold fog) for residential, commercial, industrial and recreational areas where the limited areas are parks, campsites, woodland areas, and municipalities, gardens, overgrown waste areas. Do not apply to lakes and streams. Do not allow spray to drift on pasture and poultry ranges or water supplies. Mosquitoes are most active and wear the fog close to the ground, e.g. cool temperatures less than 10 mph. Applications during the day are usually preferable. Repeat treatment as needed.

U.L.V. Nonthermal Aerosol (Cold Fog) For Midge and Blackflies, apply BIOMIST® 30-30 ULV ground applicator capable of spraying with droplets ranging in size from 5 to 10 microns (MMD) of 10 to 20 microns. Apply the product at a rate of 6.00 fluid ounces per minute at an air speed of 10 mph. If a different vehicle speed is used, adjust the flow rate accordingly. For example, if a vehicle speed of 5 mph is used, the flow rate should be adjusted to 3.00 fluid ounces per minute. For example, if a vehicle speed of 15 mph is used, the flow rate should be adjusted to 9.00 fluid ounces per minute. An accurate flow rate is essential for proper application. Biomist® 30-30 ULV is suitable solvent such as mineral oil. The maximum pounds of active ingredient per acre is indicated in the previous table. The following chart shows application rates for ground U.L.V. applications. Adjust flow rate accordingly.

FOR A 1:2 BIOMIST® 30-30 ULV
Mix one (1) part BIOMIST® 30-30 ULV with two (2) parts water at the following rates:

Permethrin pounds/acre	Application Rate Fl. oz./Min. 5MPH
0.0062	30
0.0031	15
0.0015	0.75

FOR A 1:4 BIOMIST® 30-30 ULV
Mix one (1) part BIOMIST® 30-30 ULV with four (4) parts water at the following rates:

Permethrin pounds/acre	Application Rate Fl. oz./Min. 5MPH
0.0062	50
0.0031	25
0.0015	1.25

FOR A 1:8 BIOMIST® 30-30 ULV
Mix one (1) part BIOMIST® 30-30 ULV with eight (8) parts water at the following rates:

Permethrin pounds/acre	Application Rate Fl. oz./Min. 5MPH
0.0062	90
0.0031	45
0.0015	2.25

ACTIVE INGREDIENTS

Permethrin (3-Phenoxyphenyl)methyl (±) cis- trans-3-(2,2-dichloroethenyl)-2,2-dimethyl- cyclopropanecarboxylate	30.00%
Piperonyl Butoxide Technical (Equivalent to 80% (butylcarbityl) (6-propylpiperonyl) ether and 20% related compounds)	30.00%
INERT INGREDIENTS	40.00%
	100.00%

Contains petroleum distillates
Contains 2.52 pounds of Permethrin and 2.52 pounds
of Piperonyl Butoxide per gallon

CAUTION
KEEP OUT OF REACH OF
CHILDREN

MANUFACTURED BY

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

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ing 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.

BIOMIST® 30-30 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, such as but not limited to parks, campsites, 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 use ULV 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.

U.L.V. Nonthermal Aerosol (Cold Fog) Application: To control Mosquitoes, Midges and Blackflies, apply BIOMIST® 30-30 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 1.0 to 6.00 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 0.0031 to 0.00185 pounds of Permethrin and 0.0031 to 0.00185 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. Biomist® 30-30 ULV may also be applied by diluting with a suitable solvent such as mineral oil and applying 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 U.L.V. applications. If an alternate dilution rate is used, adjust flow rate accordingly.

FOR A 1:2 BIOMIST® 30-30 ULV/SOLVENT DILUTION RATIO
Mix one (1) part BIOMIST® 30-30 with two (2) parts solvent and apply at the following rates:

Permethrin pounds/acre	Application Rates Fl. oz./Min.			Fl. oz. finished spray per acre
	5MPH	10MPH	15MPH	
0.0062	3.0	6.0	9.0	2.0
0.0031	1.5	3.0	4.5	1.0
0.0015	0.75	1.5	2.25	0.5

FOR A 1:4 BIOMIST® 30-30 ULV/SOLVENT DILUTION RATIO
Mix one (1) part BIOMIST® 30-30 with four (4) parts solvent and apply at the following rates:

Permethrin pounds/acre	Application Rates Fl. oz./Min.			Fl. oz. finished spray per acre
	5MPH	10MPH	15MPH	
0.0062	5.0	10.0	15.0	1.6
0.0031	2.5	5.0	7.5	0.8
0.0015	1.25	2.5	3.5	0.4

FOR A 1:8 BIOMIST® 30-30 ULV/SOLVENT DILUTION RATIO
Mix one (1) part BIOMIST® 30-30 with eight (8) parts solvent and apply at the following rates:

Permethrin pounds/acre	Application Rates Fl. oz./Min.			Fl. oz. finished spray per acre
	5MPH	10MPH	15MPH	
0.0062	9.0	18.0	27.0	3.0
0.0031	4.5	9.0	13.5	1.5
0.0015	2.25	4.5	6.75	0.75

For 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 33 to 1.0 fluid ounces of BIOMIST® 30-30 ULV per acre. BIOMIST® 30-30 ULV may also be diluted with a suitable solvent such as mineral oil and applied by aerial ULV equipment so long as 1.0 fluid ounces per acre of BIOMIST® 30-30 ULV is not exceeded. Both aerial and ground applications should be made when wind is less than 10 MPH.

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.

ACCEPTED FOR
SUBCOMMENTS
in EPA Letter Dated:

1987 AVAILABLE COPY

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.

8329-47

FOR MORE INFORMATION CALL:
1-800-223-5727