

**NOTICE OF PESTICIDE:** ☐ REGISTRATION  
☐ REREGISTRATION

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

NAME OF PESTICIDE PRODUCT

**BIONIST 31 + 66 ULV**

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

**CLARKE MOSQUITO CONTROL PRODUCTS  
159 NORTH GARDEN AVENUE  
ROSELLE, IL 60172**

**FILE COPY**

*161-5430-335  
181*

**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). make the following label changes listed below before you release the product for shipment:

a). Add the phrase, "EPA Registration No. 8329-43" to the labeling,

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.

4). Submit a repeated oral LD<sub>50</sub> study (GRN § 81-1) conducted in accordance with the Agency's GLP regulations 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)

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE



# BIOMIST® 31+66 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

May be fatal 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 in or 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 the labeling.

### CONDITIONS and RATES to USE for MOSQUITO CONTROL

Permethrin pounds/gallon	Application Rate fl. oz./1000 sq. ft.	PI. 100%	BIOMIST® 31-66 per acre
0.001	3.0	8.0	9.0
0.005	1.5	3.0	4.5
0.025	0.3	1.0	1.5

#### ACTIVE INGREDIENTS

Permethrin (3-Phenoxyphenylmethyl)(1) cis,  
trans-3-(2,2-dichloroethyl)-2,2-dimethyl-  
cyclopropanecarboxylate 31.00%  
Piperonyl Butoxide Technical  
Equivalent to 80% (butylcarbitol)  
(6-propylpiperonyl) ether and  
20% related compounds 66.00%  
INERT INGREDIENTS 3.00%  
100.00%

Contains petroleum distillates

Contains 2.80 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.  
199 N. GARDEN AVENUE  
ROSELLE, ILLINOIS 60172

EPA EST No. 63290.01  
EPA Reg. No. 6329-

#### 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.

BIOMIST® 31-66 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 but not limited to parks, campuses, 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. A cool temperature 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, Midges and Blackflies, apply BIOMIST® 31-66 ULV using any standard ULV 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 6.0 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 Permethrin and 0.0175 to 0.105 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 insure the proper flow rate. BIOMIST® 31-66 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 following 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 1:1 BIOMIST® 31-66 ULV/SOLVENT DILUTION RATIO  
Mix one (1) part BIOMIST® 31-66 with one (1) part solvent and apply at the following rates:

Permethrin pounds/gallon	Application Rate fl. oz./1000 sq. ft.	PI. 100%	BIOMIST® 31-66 per acre
0.001	3.0	8.0	9.0
0.005	1.5	3.0	4.5
0.025	0.3	1.0	1.5

FOR A 1:4 BIOMIST® 31-66 ULV/SOLVENT DILUTION RATIO  
Mix one (1) part BIOMIST® 31-66 with four (4) parts solvent and apply at the following rates:

Permethrin pounds/gallon	Application Rate fl. oz./1000 sq. ft.	PI. 100%	BIOMIST® 31-66 per acre
0.001	3.0	8.0	9.0
0.005	1.5	3.0	4.5
0.025	0.3	1.0	1.5

FOR A 1:8 BIOMIST® 31-66 ULV/SOLVENT DILUTION RATIO  
Mix one (1) part BIOMIST® 31-66 with eight (8) parts solvent and apply at the following rates:

Permethrin pounds/gallon	Application Rate fl. oz./1000 sq. ft.	PI. 100%	BIOMIST® 31-66 per acre
0.001	3.0	8.0	9.0
0.005	1.5	3.0	4.5
0.025	0.3	1.0	1.5

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. Follow the above directions may result in reduced effectiveness. Applications should be done by suitable aerial ULV equipment capable of producing droplets with an MMD of 50 microns or less with no more than 100 microns. Flow rate and swath width should be set so as to achieve 33 to 100 fluid ounces of BIOMIST® 31-66 ULV per acre. BIOMIST® 31-66 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® 31-66 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 in a cool, dry place at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sawdust, vermiculite, 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. Layer. Wrap containers in several layers of newspaper and discard.

CONTAINERS LARGER THAN ONE GALLON: Metal Containers: Triple rinse or equivalent. Then offer for recycling or reconditioning, puncture and dispose of in a sanitary landfill or by other approved state and local procedures. 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.

dispose of in a sanitary landfill or by other approved state and local procedures.

ACCEPTED  
with COMMENTS  
by EPA Letter Dated

18 DEC 1992

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

9329-43

FOR MORE INFORMATION CALL  
1-800-373-5727