





# BIOMIST® 2+2 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 swallowed, inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after using and before eating or smoking. Avoid contamination of food and feed. May cause contact sensitization following repeated contact with skin in susceptible individuals.

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. Do not induce vomiting because of aspiration hazard.

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

**IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists.

**IF ON SKIN:** Remove contaminated clothing and wash affected area with soap and water. Get medical attention if irritation persists. **NOTE TO PHYSICIAN:** \*Solvent presents an aspiration hazard. 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 contaminate water when disposing of equipment washwaters. 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 treatment area.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill 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.

Permethrin pounds/acre	Application Rates				Fl. oz. Biomist 2+2 per acre
	5MPH	10MPH	15MPH	20MPH	
0.007	18.0	36.0	54.0	72.0	6.0
0.0035	9.0	18.0	27.0	36.0	3.0
0.00175	4.6	9.0	18.0	27.0	1.6

E.P.A. EST. No. 8329IL01

EPA Reg. No. 8329-63

**NET CONTENTS**  
**LOT NO.**

NOTIFICATION  
FEB 25 2000

### ACTIVE INGREDIENTS:

Permethrin (3-Phenoxyphenyl)methyl (±) cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethyl-cyclopropanecarboxylate.....	2.00%
Piperonyl Butoxide, Technical Equivalent to 80% (butylcarbityl) (6-propylpiperonyl) ether and 20% related compounds.....	2.00%
INERT INGREDIENTS*	96.00% 100.00%

Contains 0.167 pounds of Permethrin and 0.167 pounds of Piperonyl Butoxide per gallon  
\*Contains a Petrochem Distillate Solvent

**CAUTION**  
**KEEP OUT OF REACH**  
**OF CHILDREN**

## CONDITIONS and RATES to USE for MOSQUITO CONTROL

Do not apply this product within 100 feet of lakes and streams. Do not allow spray treatment to drift on pastureland, cropland, poultry ranges or water supplies. BIOMIST® 2+2 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. 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 speeds not greater than 5 mph. Application during the cool hours of the night or early morning is preferable. Repeat treatment as needed.

MANUFACTURED BY

**CLARKE MOSQUITO CONTROL  
PRODUCTS, 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.

IN CASE OF EMERGENCY, CALL INFO TRAC 1-800-535-5053

**U.L.V. Nonthermal Aerosol (Cold Fog) Application:** To control Mosquitoes, Midges, and Blackflies, apply BIOMIST® 2+2 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. 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 2+2 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 table.

**THERMAL AEROSOL FOGGING:** Truck mounted - apply undiluted with suitable Thermal Fogging equipment. Do not exceed the maximum rates. May be applied at speeds of 5 mph up to 20 mph. To reduce oil requirement and sludge buildup in equipment, use 100-second viscosity mineral "fog" oil. For use with hand carried foggers, use same rates of A.I. per acre. Do not wet foliage since oil base formulations may be phytotoxic. Do not fog when wind conditions exceed 5 miles per hour. Use a clean, well-maintained and properly calibrated fogger. Fog downwind.

**AS A BARRIER SPRAY:** Use a "Backpack" ULV unit - for use in non-thermal ULV portable backpack equipment, apply Biomist 2+2 ULV with equipment adjusted to deliver ULV particles of 50 to 100 microns mass median diameter. Use 76 fl.oz. of the undiluted spray per acre (equal to 0.1 lb. A.I./Acre) as a 50-ft. (15.2 m) swath while walking at a speed of 2 m.p.h. (3.2 k.p.h.). May also be applied diluted; make sure that the same amount of A.I. (0.1 lb.) is applied per acre.

**AERIAL APPLICATION:** The use of specially designed aircraft capable of applying Ultra-Low Volumes of Biomist 2+2 ULV at above recommended rates may be considered necessary when conducted at the discretion of Public Health Officials, Mosquito Abatement Districts, and other trained personnel engaged in Outdoor Mosquito & Biting Fly control programs when these insects threaten to become a public health hazard. **PROHIBITION ON AERIAL USE:** Not for aerial application in Florida unless specifically authorized by the Bureau of Entomology, 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 product in its original labeled container in a cool, dry locked place designated for such insecticides and out of reach of children. Avoid exposure to extreme temperatures. In case of spillage, soak up with absorbent material such as sawdust or fullers earth; sweep up and place in a labeled container and dispose of as follows.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved wastes disposal facility.

**CONTAINER DISPOSAL:** (Metal) 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. (Plastic) Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or allowed by State and local authorities, by burning. If burned, stay out of smoke.