

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
4-389

Date of Issuance:  
MAR 18 1997

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

Term of Issuance:  
Conditional

Name of Pesticide Product:  
Mosquito Beater 2-2

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Bonide Products, Inc.  
2 Wurz Ave  
Yorkville, NY 13495

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration No. 4-389".
  - b. Under "thermal aerosol fogging" we recommend adding the typical dilution rate for thermal fog oil.
  - c. Revise the directions for use consistent with the latest approved label for EPA Reg. No. 42737-15. (previously 4-377).

Signature of Approving Official:

Date:

EPA Form 8570-6

CONCURRENCES

SYMBOL	SURNAME	DATE					
	<i>[Signature]</i>	3-20-97					

3. Submit two (2) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

Please note that if a product is a 100% repackaging of another registered product and is labeled for the same uses you do not need to submit a certification with respect to citation of data. Note also that neither permethrin nor piperonyl butoxide are exclusive use chemicals.

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 constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosure

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

MAR 18 1997

# Mosquito Beater 2-2

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide registration under EPA Reg. No. 4-388

For Application only by Public Health Official and Trained Personnel of Mosquito Abatement Districts and Other Mosquito Control Programs. An All Temperature, Quick knockdown, Low Odor, Non-Corrosive Synergized Synthetic Pyrethroid for the Control of Adult Mosquitoes, in Residential, And Recreational Areas. Also for Use Against Biting and Non-Biting Midges and Black flies.

**ACTIVE INGREDIENTS:**

- Permethrin (3-phenoxyphenyl)methyl(+/-) cis/trans 3-(2,2-dichloroethyl) 2,2-dimethyl cyclopropanecarboxylate - - - - 2.0%
- Piperonyl Butoxide Technical Equivalent to 80% (butylcarbityl) (6-propylpiperonyl)ether and 20% related compounds- - - - 2.0%

**INERT INGREDIENTS:** - - - - - 96.0%  
Contains a "Petroleum Distillate Solvent" Total 100.0%

**Bonide Products Inc.**  
2 Wurz Avenue  
Yorkville, N.Y. 13495 U.S.A.

Net Contents 30 Gallons



Contains 0.167 lb. A.I./ Permethrin / Gal. and .167 lbs. Piperonyl Butoxide / Gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

EPA Reg. No. 4-

"PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente" EPA Est. No. 4-NY-1

**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. (mb-2-2.PM501-24-97)

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**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.

**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 sites 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 the treatment area.

**PHYSICAL AND 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.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** 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 fillers 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 waste 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 if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**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 and/or lawn mower foggers, use same rates of A.I. per acre. Do not wet foliage since certain 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 Down wind.

**NON-THERMAL AEROSOL (COLD FOG)**

Mosquito Beater 2-2 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 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, i.e. cool temperatures and wind speed not greater than 5 m.p.h. Application during the cool hours of the night or early morning is preferable. Repeat treatment as needed.

Mosquito Beater 2-2 U.L.V. Nonthermal Aerosol (Cold Fog) Applications. To control Mosquitoes, Midges and Blackflies, apply Mosquito Beater 2-2 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 fluid ounces per minute at an average vehicle speed of 10 m.p.h.. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.00175 to 0.007 pounds of Permethrin and the same amount 0.00175 to 0.007 pounds of the synergist 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. Mosquito Beater 2-2 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.

**AS A BARRIER SPRAY USE A "BACKPACK" ULV UNIT**

For use in non-thermal ULV portable backpack equipment apply Mosquito Beater 2-2 with equipment adjusted to deliver ULV particles of 50 to 100 microns mass median diameter. Use 7.6 fl. oz. of the undiluted spray/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 Mosquito Beater 2-2 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.

**CHART NO. 1 - FOR USE UNDILUTED**

Permethrin/PBO lb. A.I./Acre	Application Rates				Fluid Ounces and milliliters per acre
	Fluid Ounces per Minute				
	5 mph	10 mph	15 mph	20 mph	
0.007 / 0.007	18.0	36.0	54.0	72.0	6.0 (178 ml)
0.0035 / 0.0035	9.0	18.0	27.0	36.0	3.0 (89 ml)
0.00175 / 0.00175	4.6	9.0	18.0	27.0	1.6 (45 ml)

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label. (mb-2-2.pM501-24-97)

RECD EPA/CRP/0001

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