

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:

4-390

Date of Issuance:

MAR 18 1997

NOTICE OF PESTICIDE:
 X Registration
 Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

Mosquito Beater 4-4

(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. 4-390".

b. Under "thermal aerosol fogging" we recommend adding the typical dilution rate for thermal fog oil.

Signature of Approving Official:

Date:

EPA Form 8570-6

CONCURRENCES

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

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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% repackage 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.

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® 4-4

the active ingredients, permethrin and piperonyl butoxide, as amended, for the pesticide

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-dichloroethenyl) 2,2-
dimethyl cyclopropanecarboxylate - - - - 4.0%

Piperonyl Butoxide Technical
Equivalent to 80% (butylcarbityl)
(6-propylpiperonyl)ether and
20% related compounds- - - - 4.0%

INERT INGREDIENTS: - - - - - 92.0%

* Contains a Petroleum Distillate Solvent Total 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

Net Contents 30 Gallons
EPA Est. No. 4-NY-1



Contains 0.3344 lbs. A.I. Permethrin / gallon
and 0.3344 lbs. A.I. Piperonyl Butoxide / gallon.

EPA Reg. No. 4-

"PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente"

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. Gastro leverage is indicated if material was taken internally. Vomiting may cause aspiration pneumonia.

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 diluted with Thermal Fog Oil and suitable Thermal Fogging equipment. Use at the recommended rates of 0.001 to 0.007 pounds of Permethrin per acre and the same amount; 0.001 to 0.007 pounds of the synergist Piperonyl Butoxide per acre. Use higher flow rate in heavy vegetation or when insect populations are high. Do not exceed the maximum rates. May be applied at speeds of 5 m.p.h. up to 20 m.p.h. 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.

AS A BARRIER SPRAY USE A "BACKPACK" ULV UNIT

For use in non-thermal ULV portable backpack equipment apply Mosquito Beater® 4-4 with equipment adjusted to deliver ULV particles of 50 to 100 microns mass median diameter. Use 38.3 fl. oz. of the undiluted spray per acre (equal to 0.1 lb. A.I. per 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.

NON-THERMAL AEROSOL (COLD FOG)

Mosquito Beater® 4-4 is recommended for application as an ultra low volume (U.L.V.) non-thermal 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, i.e. cool temperatures and wind speed not greater than 10 m.p.h., Applications during the cool hours of the night or early morning is preferable. Repeat treatment as needed.

Mosquito Beater® 4-4 U.L.V. Non-thermal Aerosol (Cold Fog) Applications. To control Mosquitoes, Midges and Blackflies, apply Mosquito Beater® 4-4 using any standard U.L.V. ground applicator with an accurate flow meter capable of ensuring the proper flow rate and of producing a non-thermal aerosol spray with droplets ranging in size from 5 to 30 microns and a mass median diameter (MMD) of 10 to 20 microns using a spread factor of 0.85. Apply the product undiluted at a flow rate of 2.3 to 6.3 fluid ounces per minute at an average vehicle speed of 10 m.p.h. with a swath width of 300 feet. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.001 to 0.007 pounds of Permethrin and the same amount 0.001 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.

Permethrin/PBO lbs. A.I./Acre	Application Rates - Fluid Ounces per Minute per M.P.H.			
	5 mph	10 mph	15 mph	20 mph
0.007 / 0.007	8.1	6.3	24.5	32.6
0.0035 / 0.0035	4.0	8.1	12.2	16.2
0.00175 / 0.00175	2.5	4.1	6.1	8.2
0.001 / 0.001	1.1	2.3	3.5	4.6

AERIAL APPLICATION

The use of specially designed aircraft capable of applying ULTRA LOW VOLUMES of Mosquito Beater® 4-4 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. **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-4-4, PM5101-29-97)

RECD EPA/DO/DPDI

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