



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

EPA Reg. Number:  
4-391

Date of Issuance:  
MAR 13 1997

Term of Issuance: Conditional

Name of Pesticide Product:  
Permethrin/PBO 50/50

NOTICE OF PESTICIDE:  
  x   Registration  
     Reregistration

(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, 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. 4-391".

b. Under the directions for thermal fogging, we recommend adding the typical dilution rate for thermal fog oil.

c. Under warranty statement change Vectec Inc. to Bonide Products Inc.

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 the same you do not need to submit a certification with respect to 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

Signature of Approving Official:

Date:

*[Handwritten Signature]*  
3/20/97

# PERMETHRIN/PBO 50-50

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.

ACCOMPLISHED  
with COMMENTS  
in EPA Letter Dated

MAR 13 1997

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 4391



Net Weight 9.128 lbs. per Gallon  
This Product Contains  
4.35 lbs. Technical Permethrin A.I.  
4.35 lbs. Technical Piperonyl Butoxide A.I.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

#### ACTIVE INGREDIENTS:

Permethrin (3-Phenoxyphenyl)methyl (+/-) cis/trans-3-(2,2-dichloroethenyl)-2,2- dimethylcyclopropanecarboxylate* - - - -	47.63%
Piperonyl Butoxide Technical** - - - - -	47.63%
INERT INGREDIENTS: - - - - -	4.74%
	Total 100.00%

\*cis/trans isomer ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.  
\*\* Equivalent to 38.10% (butylcarbitol (6-propylpiperonyl) ether and 9.63% related compounds.

Net Contents 30 Gallons  
This product will not dilute with water.

**Bonide Products Inc.**

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

KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

#### 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.  
(PER5050.prd) (01-29-97)

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 4-

EPA Est. No. 4-NY-1

#### 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. Do not apply when wind speeds exceed 10 mph.

#### PHYSICAL AND CHEMICAL HAZARDS Do not use, 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 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 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.

#### Notice of Non-Warranty

Vectec, Inc. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Vectec, Inc. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of Vectec, Inc. and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, diseases, pest, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL VECTEC, INC. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

#### AERIAL APPLICATION

The use of specially designed aircraft capable of applying ULTRA LOW VOLUMES of Permethrin/PBO/50-50 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 IN FLORIDA: Not for aerial application in Florida unless specifically authorized by the Bureau of Entomology, Florida Department of Agriculture and Consumer Services.

#### THERMAL AEROSOL FOGGING

TRUCK MOUNTED: Apply Permethrin/PBO/50-50 with suitable thermal fogging equipment diluted with a 100 second viscosity mineral oil or another suitable non-phytotoxic diluent. Do not exceed the maximum rates. May be applied at speeds of 5 mph up to 20 mph. 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. Apply Permethrin/PBO/50-50 to deliver the following amounts, (within the range of 0.001 to 0.007) of active ingredient per acre, 0.001 to 0.007 lbs. Permethrin A.I. per acre + 0.001 to 0.007 lbs. Piperonyl Butoxide A.I. per acre.

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

Permethrin/PBO/50-50 may be applied undiluted or diluted with refined soybean oil, light mineral oil, or another suitable non-phytotoxic diluent. Permethrin/PBO/50-50 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. To control Mosquitoes, Midges and Blackflies, apply Permethrin/PBO/50-50 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 to deliver 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. An accurate flow meter must be used to ensure the proper flow rate. 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.

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

Permethrin/PBO/50-50 may be applied as is, undiluted or diluted using a vegetable oil or other suitable non-phytotoxic diluent. For use in non-thermal ULV portable backpack equipment apply Permethrin/PBO/50-50 with equipment adjusted to deliver ULV particles of 50 to 100 microns mass median diameter. Use 0.1 lb. A.I./Acres as a 50 ft. (15.2 m) swath while walking at a speed of 2 m.p.h. (3.2 k.p.h.). Whether applied undiluted or diluted make sure that the same amount of A.I. (0.1 lb.) is applied per acre.

BEST AVAILABLE COPY

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