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432-796

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

EPA Reg. Number:
432-796

Date of Issuance:
JUL 9 1997

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
AQUA-PERMANONE

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Agro Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

166 / 518015
18/1

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 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 following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 432-796."
- b. The statement "For Application Only BY Health and Trained Personnel, etc...." should be separated from the text and placed in large bold letters.
- c. Under Environmental Hazards the second sentence should begin "Do not apply directly to water, etc...." Delete "For Terrestrial Uses."

Signature of Approving Official:

George T. LaRocca
George T. LaRocca
Product Manager (13)

Date:

JUL 9 1997

d. Add referral statement to front panel, i.e. "Refer to back/side panels for additional precautions.

3. We acknowledge the correct acute oral and eye irritation Toxicity Category. The acute toxicity profile for the subject proposed product is currently as follows:

ACUTE DATA	GRN	MRID #	TOX CAT.	CLASSIFICATION
Acute Oral	S81-1	432237-04	III	Acceptable
Acute Dermal	S81-2	432237-05	IV	Acceptable
Acute Inhalation	S81-3	440644-01	IV	Acceptable
Primary Eye Irritation	S81-4	432237-07	IV	Acceptable
Primary Skin Irritation	S81-5	432237-06	IV	Acceptable
Dermal Sensitization	S81-6	440644-02		Non-Sensitizer

4. Submit three (3) copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

AQUA-PERMANONE®

ENVIRONMENTAL HAZARDS

- * For Application Only By Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Mosquito Control Programs.
- * Synergized Permethrin Formulation
- * A Synthetic Pyrethroid For Effective Adult Mosquito (including organophosphate resistant species), Midge (biting and non-biting) and Blackfly Control
- * To Be Used As A Space Spray By Air and Ground Application For The Control Of Adult Mosquitoes
- * To Be Used As A Space Spray By Air Application For The Control Of Adult Mosquitoes
- * To Be Used As A Space Spray By Ground Application For The Control Of Adult Mosquitoes
- * Unique Patented Formulation Allows Dilution With Water Rather Than Oil
- * Patented Formulation
- * Uses Water as A Diluent
- * Fast And Effective Control Of Adult Mosquitoes
- * Provides Quick Knockdown And Effective Control Of Black Flies, Gnats, Biting And Non-Biting Midges As Well As Other Biting Flies
- * For Aerial Or Ground Application

This pesticide is extremely toxic to fish and aquatic invertebrates. For terrestrial use, 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 rinsate. Do not apply when wind speeds exceed 10 MPH.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL FOR DIRECTIONS.

SHAKE OR AGITATE THOROUGHLY BEFORE DILUTING: Diluted product must be thoroughly agitated before use. Avoid storing excess formulation in equipment.

NOTICE: This concentrate cannot be diluted in oil.

Aqua-Permanone is designed to be diluted with water and applied as a ULV spray. The formulation greatly reduces the evaporation rate of water from the droplets and allows the water-based spray cloud to behave as that produced by a typical oil-based formulation.

This concentrate, upon dilution with water is recommended for application as an Ultra Low Volume (ULV) or non-thermal (cold aerosol). Aqua-Permanone may be used for mosquito control programs including residential, industrial, municipalities, parks, campsites, woodlands, athletic fields, golf courses, gardens, playgrounds, recreational and overgrown waste areas, roadsides and other public areas where adult mosquitoes occur. Do not apply over agricultural crops that are used for food, forage or pasture.

In treatment of corrals, feed lots, swine lots and zoos, cover any exposed drinking water, drinking fountains and animal feed before application. Do not contaminate pasture land, cropland, poultry ranges or water supplies from spray drift.

Do not apply this product within 100 feet (30 meters) of lakes and streams.

Both aerial and ground applications should be made when wind is less than 10 mph.

Aqua-Permanone® provides effective control of adult mosquitoes, black flies, gnats, biting and non-biting midges, stable flies, horse flies, deer flies, sheep flies and other biting flies and nuisance flying insects.

Aqua-Permanone provides excellent insect control when ULV applications are made at rates up to 0.007 pounds of permethrin per acre.

Droplet size of an Aqua-Permanone application may be determined using the following procedure:

Droplet size of Aqua-Permanone should be measured using teflon coated glass slides. An adequate volume of air should be sampled by using, for example, rotating rod samplers. Slides are examined microscopically and the diameter of droplets measured in microns. Slides should be scanned until 100-200 droplets have been counted. A spread factor of 0.86 should be used to correct droplet counts. **ACCEPTED**
IN EPA LETTER DATED

ACTIVE INGREDIENTS:

†Permethrin	20.0%
‡Piperonyl Butoxide, Technical	20.0%
INERT INGREDIENTS*:	60.0%
	100.0%

†(3-phenoxyphenyl) methyl (±) cis/trans 3-(2,2-dichloroethenyl) 2,2-dimethyl cyclopropanecarboxylate. Cis/trans ratio: Maximum 35% (±) cis and minimum 65% (±) trans.

‡Equivalent to 16.0% (butylcarbityl)(6-propylpiperonyl) ether and 4.0% related compounds.

*Contains Petroleum Distillate

PERMANONE - Registered Trademark of AgrEvo Environmental Health, Inc.

Contains 1.67 pounds of permethrin and 1.67 pounds of piperonyl butoxide per gallon.

EPA Reg. No. 432- EPA Est. No. _____

PRECAUCION AL CONSUMIDOR: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada amplamente. (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

KEEP OUT OF REACH OF CHILDREN CAUTION STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol. May pose an aspiration pneumonia hazard.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling.

NET CONTENTS::

JUL 9 1997

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 432-796

GROUND APPLICATION

Vehicle-mounted ULV application: Apply through non-thermal ULV application equipment and base acreage calculations on a 300 foot swath. Adjust equipment to produce droplets within the range of 8 - 20 microns (mass median diameter) and apply when there is a light breeze (i.e. 5 to 10 MPH) at a rate not to exceed 0.007 pounds of permethrin per acre. An optimum swath is created when Aqua-Permanone® is applied from a vehicle that is being driven perpendicular to the wind direction. Direct spray head of equipment in a manner to insure even distribution of the spray cloud throughout the area. For best results, treat when insects are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground, inversion of air temperatures and wind is not excessive (does not exceed 10 mph). Application during the cool hours of the early morning or night is preferable. Avoid prolonged inhalation of spray droplets.

Aqua-Permanone may be applied through ULV Cold Aerosol Generators or other equipment designed for non-thermal ULV aerosol application. The desired application rate may be obtained under different conditions by altering the dilution rate of Aqua-Permanone, the flow of insecticide from the application equipment and the vehicle speed as illustrated in the following Table.

Application Rate (lb permethrin/A)	Vehicle Speed (MPH)	Flow Rate (Fluid Ounces Per Minute)				
		Undiluted	Diluted 1+2	Diluted 1+4	Diluted 1+8	Diluted 1+12
0.0010	10	0.46	1.40	2.30	4.30	6.00
	15	0.70	2.10	3.50	6.40	9.00
	20	0.95	2.80	4.60	8.60	12.00
0.0015	10	0.70	2.10	3.50	6.30	9.00
	15	1.05	3.10	5.20	9.50	13.60
	20	1.40	4.20	7.00	12.50	18.00
0.0035	10	1.63	4.90	8.10	14.60	
	15	2.45	7.30	12.20	22.00	
	20	3.25	9.80	16.30	29.30	
0.007	10	3.25	9.80	16.30		
	15	4.89	14.60	24.40		
	20	6.53	19.50	32.60		

Where dense vegetation is present, the use of the higher rates and/or slower speed is recommended.

Backpack sprayer ULV application: Apply through non-thermal ULV application equipment and base acreage calculations on a 50 foot swath. Dilute Aqua-Permanone with water and apply at the rate of 8 ounces of finished spray per acre (based on a 50 foot swath, 8 ounces should be applied while walking 870 feet). To apply 0.0035 pounds of permethrin per acre, dilute 1 part Aqua-Permanone with 31 parts water and apply at the rate listed above. To apply 0.007 pounds of permethrin per acre, dilute 1 part Aqua-Permanone with 15 parts water and apply at the rate listed above.

AERIAL APPLICATION

IN FLORIDA: Do not apply by aircraft except in emergency situations and with the approval of Florida Department of Consumer Services.

Aqua-Permanone® may be applied (at rates up to 0.007 pounds of permethrin per acre) by fixed-wing and rotary aircraft that are capable of making a ULV application. Repeat applications should be made as necessary. It is preferable to make applications when temperatures exceed 50°F (10°C).

For best results, treat when insects are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground, inversion of air temperatures and wind is not excessive (does not exceed 10 mph). Application during the cool hours of the early morning or night is preferable. Avoid prolonged inhalation of spray droplets.

Application should be made at an altitude of 165 feet (50 meters) with a droplet VMD of 60 microns. Reduction in efficacy is possible if applied at higher altitudes.

Application is preferable during inversion conditions which do not favor spray drift.

Always clean equipment after use to insure against contamination.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage and Spill Procedures: Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

Container Disposal: Metal Containers - Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. 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.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.