



# AQUA-PERMANONE®

FOR APPLICATION ONLY BY PUBLIC HEALTH OFFICIALS, TRAINED PERSONNEL OF MOSQUITO ABATEMENT DISTRICTS AND OTHER MOSQUITO CONTROL PROGRAMS.

## PRECAUTIONARY STATEMENTS

**To Humans & Domestic Animals**

CAUTION: Harmful if swallowed. Wash thoroughly with soap and water after use.

- \* 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 Applications 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

## Environmental Hazards

This pesticide 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 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.

## ACTIVE INGREDIENTS:

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

†(3-phenoxyphenyl) meythyl (+/-) cis/trans 3-(2,2-dichloroethyl) 2,2-dimethyl cyclopropanecarboxylate. Cis/trans ratio: min. 35% (+/-) cis and max. 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. 432-796

EPA Est. No.

PRECAUCION AL CONSUMIDOR: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(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.

See Side Panel For Additional Precautionary Statements

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 assessed. A spread factor of 0.61 should be used to correct droplet diameters.

**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 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.

**AgrEvo Environmental Health**  
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