

73748-1

06/11/2002

**ACCEPTED** 1/4  
JUN 11 2002  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 73748-1

# MASTERLINE AQUA-KONTROL CONCENTRATE

For Mosquitoes, Flies and Gnats

An All Temperature, Quick Knockdown, Low Odor, Non-Corrosive Synergized Synthetic Pyrethroid for the Control of Adult Mosquitoes, in Residential, Recreational and Other Areas. Also for Use Against Biting and Non-Biting Midge and Black Flies.

For Application only by Public Health Officials and Trained Personnel of Mosquito Abatement Districts and Other Mosquito Control Programs

**ACTIVE INGREDIENTS:**

*Permethrin .....	20.0%
**Piperonyl Butoxide Technical .....	20.0%
INERT INGREDIENTS:.....	60.0%
<b>TOTAL.....</b>	<b>100.0%</b>

\*(3-phenoxyphenyl)methyl(+/-)Cis/trans 3-(2,2-dichloroethenyl)2,2-Dimethyl cyclopropanecarboxylate.  
Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.  
\*\*Equivalent to 80% (butylcarbityl)(6-propylpiperonyl) ether and 20% related compounds  
Contains 1.75 pounds of Permethrin and 1.75 pounds of Piperonyl Butoxide per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

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

### FIRST AID

If Swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

See Side Panel for Additional Precautionary Statements

Manufactured By:  
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EPA Registration No. 73748-1  
EPA Establishment No.

Net Contents:

## PRECAUTIONARY STATEMENTS

### HAZARDS TO DOMESTIC ANIMALS AND HUMANS

Harmful if swallowed. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

### 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 cleaning equipment and disposing of equipment washwaters. This product is highly toxic to bees while 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 area.

Do not apply this product within 100 feet (30 meters) of fish bearing areas. Do not allow spray treatment to drift onto pastureland, cropland, poultry ranges or water supplies.

### PHYSICAL AND CHEMICAL HAZARDS

Flash point: Non-flammable

### STORAGE AND DISPOSAL

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

**Pesticide Storage and Spill Procedures:** 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:** 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.

### DIRECTIONS FOR USE

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

### AQUA – KONTROL NON-THERMAL AEROSOL (COLD FOG)

**NOTICE-** This product cannot be mixed with oil. Use only clean water. Contains no aromatic or aliphatic petroleum distillates.

Wear long sleeved shirt and long pants, socks and shoes.

**AQUA-KONTROL** stays fully in suspension and will not settle or separate. No shaking or agitation is required before mixing. Mixed product will stay in suspension and will not gelatinize or produce filter-causing by-products.

**AQUA-KONTROL** acts similar to an oil based product. No adjustment of application equipment is necessary.

**AQUA-KONTROL** is designed to be either diluted with water, or used undiluted, and applied as a ULV or Barrier spray. Do not apply this product with thermal fogging equipment. Do not exceed the maximum recommended # a.i. per acres. **AQUA-KONTROL** may be used to control adult mosquitoes, flies and gnats in mosquito control programs including, but not limited to residential, industrial, municipalities, parks, campsites, woodlands, athletic fields, golf courses, gardens, playground, recreational areas, waste areas and other places where mosquitoes occur. For best results, treat when insects are most active and conditions are conducive to keeping the fog close to the ground. Repeat treatment as needed.

In treatment of corrals, feedlots, animal confinements/houses, swine lots and zoos, cover any exposed drinking water and feed sources before applying. Do not contaminate non-approved sites with spray drift.

Both ground and aerial applications should be made when meteorological conditions are conducive to keeping the spray cloud close to the ground, such as when an air temperature inversion is present. Do not apply when wind speed exceed 10 mph. Applications during the cool hours of early morning or evening are preferably. Application in calm air conditions is to be avoided.

Droplet size of Masterline Aqua-Kontrol application may be determined using the following procedure: Droplet size of Aqua-Kontrol should be measured using Teflon coated glass slides. An adequate volume of air should be sampled by using, for example, rotating rod samplers. Other sampling techniques, such as an Ames Machine, may be used if authorized by local regulatory authorities. 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. The largest droplet should not exceed 50 microns and less than 5% of the droplets should be below 5 microns. A 90% value of the droplets should be in the range of 5 to 30 microns in size.

**AQUA-KONTROL ULV Non-Thermal Aerosol (cold fog) Application:** To control mosquitoes, midges and blackflies, apply AQUA-KONTROL using any standard ULV ground applicator, with a swath width of 300 ft., capable of producing a non-thermal aerosol spray with droplets ranging in size from 5 to 30 micron in diameter and mass medium diameter (MMD) of 15 to 20 microns. Vary flow rates accordingly to vegetation density and mosquito population. Use higher flow rates in heavy vegetation or when populations are high. An accurate flow control system must be used to ensure proper flow rate. AQUA-KONTROL may also be applied by diluting with water and applying so as not to exceed the maximum pounds of active ingredient per acre as shown in the first column of the ULV table shown below. That table represents recommended application rates for ground ULV applications. If an alternative dilution rate is required, adjust the flow rate accordingly, provided the droplet size and spectrum remains within label specifications. Do not exceed a flow rate of 20 oz./min. May be applied at truck speeds of 5 to 20 mph.

**Conditions and Rates to use AQUA-KONTROL Undiluted for Mosquito Control**

PERMETHRIN/PBO LBS. A.I./ACRE	APPLICATION RATES /FLUID OUNCES TO USE PER MINUTE		
	5 mph	10 mph	20 mph
0.007/0.007	1.5	3.1	6.2
0.0035/0.0035	0.75	1.5	3.1
0.00175/0.00175	0.4	0.75	1.5

**Recommended Dilution Rates for AQUA-KONTROL**

% CONCENTRATION	Parts AQUA-KONTROL	Parts Water
2%	1	9
4%	1	4

**Recommended Flow (oz/min) and Use Rates for a 2% (1 to 9 Dilution Ratio) Product**

PERMETHRIN/PBO LBS. A.I./ACRE	APPLICATION RATES /FLUID OUNCES TO USE PER MINUTE		
	5 mph	10 mph	20 mph
0.007/0.007	15.5	Not Recommended	Not Recommended
0.0035/0.0035	7.8	15.5	Not Recommended
0.00175/0.00175	3.9	7.8	15.5

**Recommended Flow (oz/min) and Use Rates for a 4% (1 to 4 Dilution Ratio) Product**

PERMETHRIN/PBO LBS. A.I./ACRE	APPLICATION RATES /FLUID OUNCES TO USE PER MINUTE		
	5 mph	10 mph	20 mph
0.007/0.007	7.75	15.5	Not Recommended
0.0035/0.0035	3.9	7.75	15.5
0.00175/0.00175	2.0	3.9	7.75

**AS A BARRIER SPRAY USING A BACKPACK MISTER TYPE UNIT**

For use in a non-thermal, portable, backpack equipment, apply **AQUA-KONTROL** with a motorized backpack mist blower adjusted to deliver particles of 50 – 100 Mass Medium Diameter. Use undiluted or diluted to achieve an application of 0.00175 / 0.00175 # a.i./acre. Use a 50 ft (15.2m) swath while walking at a speed of 2 mph (3.2 kph). If using a different speed, swath or dilution, do not exceed the maximum a.i./acre.

**AERIAL APPLICATION**

The use of specially equipped aircraft capable of applying **ULTRA LOW VOLUMES** of at or above recommended rates may be considered necessary when conducted at the discretion of the Public Health Officials, Mosquito Abatement districts or other trained personnel engaged in Outdoor Mosquito and Biting Fly Programs when these insects threaten or become a public health hazard.

Aerial applications should be by suitable aerial ULV equipment capable of producing droplets with an MMD of 50 or less, with no more than 2.5% exceeding 100 micron. Application should be made at an altitude range of 120 to 175 feet (37 to 53 meters) with a swath width from 200 to 500 feet depending on the terrain and weather conditions. The recommended airspeed for fixed wing aircraft with flat fan nozzles is from 120 to 160 mph. For rotary wing aircraft equipped with rotary nozzles, apply at a sufficient airspeed to deliver the appropriate amount of a.i./acre. **PROHIBITION FOR AERIAL USE: Not for aerial application in Florida unless specifically authorized by the Bureau of Entomology and Pest Control, Florida Department of Agriculture and Consumer Services.**

**NOTICE:** Buyer and user assume all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

**BUYER GUARANTEE LIMITED TO LABEL CLAIMS**

