

Water-based Adulticide

A water based formulation for control of adult mosquitoes in Outdoor Residential, Recreational, and other Outdoor Areas; and for use in and around animal areas and quarters for control of Flies, Mosquitoes, Small Flying Moths, and other listed insects.

Active Ingredients

Pyrethrins	5.00%
Piperonyl Butoxide, Technical *	25.00%
Other Ingredients	70.00%
	100.00%

* Equivalent to 20.0% (butylcarbityl) (6-propylpiperonyl) ether and 5.0% related compounds

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: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes, or clothing. Avoid contamination of food or feedstuffs.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and other aquatic organisms. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and other aquatic organisms. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

This product is toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to blooming crops or weeds when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

PHYSICAL OR 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.

Read all directions completely before use and follow all directions and precautions when using product.

This product cannot be mixed with oil. Use only clean water. Contains no aromatic or aliphatic petroleum distillates. SHAKE OR AGITATE THOROUGHLY BEFORE DILUTING. Diluted product must be thoroughly agitated before use. Avoid storing excess formulation in equipment.

In treatment of corrals, feedlots, animal confinements/houses, swine lots and zoos, cover any exposed drinking water, drinking water fountains and animal feed before application.

OUTDOOR USE: WIDE AREA-MOSQUITO CONTROL

For Mosquito Adulticiding: For use only by federal, state, tribal or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

Do not treat a site with more than 0.0025 lb ai/A per day. Do not apply more than 0.0625 lb ai/A per year. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

AQUAHALT may be used undiluted or diluted with water and applied as an ultra low volume (ULV) non-thermal aerosol (cold fog) or in suitable mechanical spray equipment. Do not apply this product with thermal fogging equipment. Do not exceed the maximum recommended dosage rate (pounds of active ingredient per acre). AQUAHALT may be used to control adult mosquitoes, flies and gnats in mosquito control programs including residential, industrial, recreational, and agricultural areas, vegetation surrounding swamps, marshes, overgrown waste areas, roadsides and pastures where adult mosquitoes occur. Use in agricultural areas should be in such a manner as to avoid residues in excess of established tolerances for pyrethrins and piperonyl butoxide on crops or commodities. For best results treat when mosquitoes are most active. Application during the cool hours of the night or early morning is usually preferable, with a minimum application temperature of 50 °F.

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. Apply only when ground wind speed is greater than 1 mph.

SPRAY DROPLET SIZE DETERMINATION

Ground-based Application: Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.5 < 30 um) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50 um). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Aerial Application: Spray equipment must be adjusted so that the volume median diameter is less than 60 microns (Dv 0.5 < 60 um) and that 90% of the spray is contained in droplets smaller than 100 microns (Dv 0.9 < 100 um). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Non-thermal Aerosol (cold fog) Application: To control mosquitoes, flies and gnats, apply AQUAHALT using any standard ULV ground applicator capable of producing a non-thermal aerosol spray cloud with appropriately sized droplets. Apply the product undiluted at a flow rate of 1.7 to 4.6 fluid ounces per minute at an average vehicle speed of 10 mph. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.0009 to 0.0025 pounds of Pyrethrins and 0.0045 to 0.0125 pounds of 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.

AQUAHALT may also be applied undiluted with non-thermal, portable, motorized backpack or hand-held equipment adjusted to deliver ULV particles of 50 to 100 microns VMD. Use 0.28 to 0.76 fluid ounces of the undiluted spray per acre as a 50 ft swath while walking at a speed of 2 mph.

Urban ULV Mosquito Control: for control of resting or flying adult mosquitoes in areas such as utility tunnels, sewers, storm drains and catch basins, pipe chases, underground basements, underground passages, parking decks, crawl spaces or uninhabited buildings. Apply using mechanical foggers, hand-held or truck-mounted ULV equipment, or other spray equipment suitable for this application. Apply at rates up to but not exceeding 0.0025 pounds Pyrethrins per acre per twenty-four hour period (not to exceed 0.0625 pounds Pyrethrins per acre in any site in one year).

Aerial Application: Aerial applications should be done by suitable aerial ULV equipment. Flow rate and swath width should be set so as to achieve 0.28 to 0.76 fluid ounces of undiluted AQUAHALT per acre. Application should be made at an altitude of less than 300 feet (91 meters) (with a minimum height of 50 feet) 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. per acre. Examples of application systems include: FLAT FAN NOZZLES: Conventional agricultural nozzles (standard flat fan) may not produce droplets within the appropriate size spectrum. If these nozzles are used, they should be oriented 135° forward and size limited to a

spray tip number (representing spray volume) according to aircraft application speed. For example, for application speeds between 60-170 mph, use nozzle tips numbering 0005 to 001 (0.05 to 0.1 gallons per minute at 40 psi). For application speeds in excess of 170 mph, nozzle tip numbers up to 004 (0.4 gpm at 40 psi) may be used. ROTARY ATOMIZERS: Rotary atomizers should be set to deliver a maximum RPM using the cage mesh or plastic sleeve available from the manufacturer to produce the appropriate size spectrum. Other ULV application systems producing droplets within specifications may be used as long as 0.76 fluid ounces of AQUAHALT per acre is not exceeded. IN FLORIDA: Do not apply by aircraft unless approved by the Florida Department of Agriculture and Consumer Services.

AQUAHALT may also be diluted with water and applied so as not to exceed the maximum pounds of active ingredient per acre as show in the tables below. If an alternative dilution rate is used, adjust the flow rate accordingly, provided the droplet size and spectrum remains within label specifications.

Rates to use AQUAHALT Undiluted for Mosquito Control

Pounds a.i./Acre		AQUAHALT Flow rates in fluid oz./minute at truck speeds of:				
Pyrethrins	PBO	Fl. oz./Acre	5 MPH	10 MPH	15 MPH	20 MPH
0.0025	0.0125	0.76	2.3	4.6	7.0	9.3
0.0018	0.0090	0.55	1.7	3.3	5.0	6.7
0.0009	0.0045	0.28	0.8	1.7	2.5	3.3

Rates to use a 2.5% product (1 to 1 dilution ratio) AQUAHALT for Mosquito Control

Pounds a.i./Acre		AQUAHALT Dilution Flow rates in fluid oz./minute at truck speeds of:				
Pyrethrins	PBO	Fl. oz./Acre	5 MPH	10 MPH	15 MPH	20 MPH
0.0025	0.0125	1.53	4.6	9.3	13.9	18.6
0.0018	0.0090	1.10	3.3	6.7	10.0	13.4
0.0009	0.0045	0.55	1.7	3.3	5.0	6.7

Rates to use a 1% product (1 to 4 dilution ratio) AQUAHALT for Mosquito Control

Pounds a.i./Acre		AQUAHALT Dilution Flow rates in fluid oz./minute at truck speeds of:				
Pyrethrins	PBO	Fl. oz./Acre	5 MPH	10 MPH	15 MPH	20 MPH
0.0025	0.0125	3.83	11.6	23.2	34.8	
0.0018	0.0090	2.76	8.4	16.7	25.1	
0.0009	0.0045	1.38	4.2	8.4	12.5	

INDOOR USE AREAS

For use in and around Animal Areas and Quarters, Dairy and Livestock Barns, Horse Stables and Barns, Poultry Houses, Swine Houses, and other similar areas. Do not apply directly to food, water or feed supplements. Do not contaminate milk or milk handling equipment. Wash udder and teats of dairy animals before milking.

ANIMAL QUARTER USE: For use in and around listed use areas to control accessible stages of Brown Dog Ticks, Clover Mites, Cockroaches, Crickets, Deer Flies, Earwigs, Face Flies, Firebrats, Fleas, Flies, Horn Flies, Hornets, Mosquitoes, Silverfish, Small Flying Moths, Spiders, Stable Flies, Ticks, Wasps, Yellow Jackets, Fannia Flies, and Darkling Beetles. Apply as a space spray in conventional ULV cold aerosol generator or fogger adjusted to deliver aerosol size droplets. Whenever possible perform space spray application in the late evening when insects are at rest. Apply undiluted at the rate of 0.25 to 1.0 fluid ounces per 1,000 cubic feet of space above the animals. This concentrate may also be diluted with water at the rate of one (1) part concentrate to 10 parts water and applied at the rate of 1-2 fluid ounces per 1,000 cubic feet of space above the animals. Direct spray toward the upper portions of the enclosure, above the animals, filling the room with mist or fog. Vacate treated area and ventilate before reoccupying.

To control Bedbugs and Mites in poultry houses, prepare a dilution of one (1) part concentrate to 25 parts water and spray crevices of roost poles and cracks in walls and nests where the Bedbugs and Mites hide.

To control Poultry Lice, spray roosts, walls and nests or cages thoroughly with a dilution of one (1) part concentrate with 25 parts water, followed by spraying over the birds with a fine mist.

FOR USE ON ANIMALS: To protect beef and dairy cattle and horses from Horn Flies, Houseflies, Mosquitoes, Gnats, dilute 1 part concentrate with 49 parts water, mix well and apply a light mist sufficient to wet the tips of the hair. To control Stable Flies, Horse Flies, and Deer Flies on animals apply two (2) fluid ounces per adult animal in an amount sufficient to wet the hair but not to soak the hide. Repeat treatment once or twice daily or at intervals to give continued protection. To control the motile stages of Blood Sucking Lice on beef and dairy cattle and other listed animals, apply the spray to thoroughly wet the hair. Use two (2) fluid ounces or less per animal and repeat every 2 to 3 weeks as required.

USE IN AUTOMATIC MISTING SYSTEMS IS PROHIBITED

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry place. Keep container closed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING FOR REFILLABLE DRUMS AND TOTES: Refillable container. Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

CONTAINER HANDLING FOR NONREFILLABLE CONTAINERS: Nonrefillable container. Do not reuse or refill this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for reconditioning, if appropriate.

RESIDUE REMOVAL FOR NONREFILLABLE CONTAINERS GREATER THAN 5 GALLONS CAPACITY: Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

RESIDUE REMOVAL FOR NONREFILLABLE CONTAINERS SMALLER THAN 5 GALLONS: Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

In case of medical emergency, call 1-888-740-8712.

In case of transportation emergency, call INFO-TRAC 1-800-553-5053.

For more information call CLARKE 1-800-323-5727

NOTICE: To the extent consistent with applicable laws, Clarke Mosquito Control products, Inc. makes no warranty, expressed or implied concerning the use of this product other than as indicated on the label. Buyer assumes all risk of use and/or handling of this material when use and/or handling is contrary to label instructions.

AQUAHALT is a Registered Trademark of Clarke Mosquito

Manufactured For

CLARKE MOSQUITO CONTROL PRODUCTS, INC.

159 North Garden Avenue
Roselle, Illinois 60172

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