



AQUADUET™

Water-Based Dual-Action Adulticide

A water based dual-action Adulticide for Effective Control of Adult Mosquitoes, Gnats, Non-Biting Midges, Biting and Non-Biting Flies in Outdoor Residential and recreational Areas.

ACTIVE INGREDIENTS

Prallethrin: (RS)-2-methyl-4-oxo-3-(2-propynyl) cyclopent-2-enyl-(1RS)-cis,trans-chrysanthematate.....	1.00%
Sumithrin®: 3-Phenoxybenzyl-(1RS, 3RS,1RS, 3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate.....	5.00%
Piperonyl Butoxide*.....	5.00%
OTHER INGREDIENTS.....	89.00%
	100.00%

* (butyl carbonyl) (6-propylpiperonyl) ether and related compounds

Contains 0.084 pounds of Prallethrin/Gallon, 0.422 pounds of Sumithrin®/Gallon, and 0.422 pounds of Technical Piperonyl Butoxide/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

Have the 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.

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Mixers, loaders, applicators, and other handlers must wear long-sleeve shirt, long pants, shoes and socks. See engineering controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS: Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

Engineering Controls: Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. 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 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 wash waters.

BEE WARNING: This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply to or allow drift onto 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.

DIRECTIONS FOR USE

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

USE RESTRICTIONS

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.

IN CALIFORNIA: This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel, or by persons under their direct supervision.

IN FLORIDA: Do not apply by aircraft unless approved by the Florida Department of Agriculture and Consumer Services.

Do not treat a site with more than 0.0036 lbs of Sumithrin (0.0036 lbs of piperonyl butoxide; 0.00072 lbs prallethrin) per acre in a 24-hour period. Do not apply more than 0.4 lbs of Sumithrin or piperonyl butoxide or 0.02 lbs prallethrin per acre in any treated area in one year. More frequent applications 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.

NOTE: When rotating products with other insecticides containing PBO, do not exceed 2 lbs PBO per acre per year.

Do not contaminate food, feed or drinking water. Do not spray this product on or allow it to drift onto rangeland, cropland, poultry ranges or potable water supplies. In treatment of corrals, feed lots, swine lots and zoos, cover any exposed drinking water, drinking water fountains and animal feed before application.

Not for use in outdoor residential misting systems.

USE INFORMATION

AQUADUET is approved for application as an Ultra Low Volume (ULV) nonthermal aerosol (cold fog) in mosquito adulticiding programs involving outdoor residential and recreational areas where adult mosquitoes or other listed flying pests are present in annoying numbers, and in vegetation surrounding parks, woodlands, swamps, marshes, overgrown areas and golf courses.

For best results, apply when mosquitoes are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground. Application in calm air conditions is to be avoided. Apply when ground wind speed is greater than or equal to 1 mph. Applications shall be conducted at temperatures above 50 °F.

AQUADUET cannot be mixed with oil. Use only clean water.

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

SPRAY DROPLET SIZE DETERMINATION

Ground-based Application: Spray equipment must be adjusted so that the volume median diameter (VMD) is between 8 and 30 microns (8 < 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 produced is less than 60 microns (Dv 0.5 < 60 um) and that 90% of the spray is contained in droplets smaller than 115 microns (Dv 0.9 < 115 um). The effects of flight speed and, for non-rotary atomizers, nozzle angle on the droplet size spectrum must be considered. 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.

GROUND U.L.V. APPLICATION

To control Mosquitoes and other listed insects, apply AQUADUET undiluted at a flow rate of 2.2 to 6.6 fluid ounces per minute at an average vehicle speed of 10 mph using a swath width of 300 feet for acreage calculations (see chart below). Under normal residential conditions a flow rate of 4.0 fluid ounces per minute is recommended. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.00024 to 0.00072 pounds of prallethrin and 0.0012 to 0.0036 pounds of Sumithrin and 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.

AQUADUET may also be diluted with water and applied by GROUND ULV equipment so long as 1.09 fluid ounces per acre of AQUADUET is not exceeded. Refer to the tables for flow rate calculations for diluted end-use formulations of AQUADUET. If an alternate dilution rate is used, adjust the flow rate accordingly, provided the droplet size and spectrum remain within label specifications.

Use the following table to calculate application rates:

Pounds a.i./Acre		AQUADUET Fl.oz./Acre	Flow Rates in Fl.oz./Minute at truck speeds of:			
Prallethrin	Sumithrin/ PBO		5 MPH	10 MPH	15 MPH	20 MPH
0.00072	0.0036	1.09	3.3	6.6	9.9	13.2
0.00044	0.0022	0.67	2.0	4.9	6.1	8.1
0.00036	0.0018	0.55	1.7	3.3	5.0	6.6
0.00024	0.0012	0.36	1.1	2.2	3.3	4.4

AQUADUET may also be applied with non-thermal, portable, motorized backpack equipment adjusted to deliver ULV particles of less than 100 microns VMD. Use 0.36 to 1.09 fl.oz. of the undiluted spray per acre (equal to 0.0012 to 0.0036 lb sumithrin/acre) as a 50 ft (15.2 m) swath while walking at a speed of 2 mph (3.2 kph).

AERIAL APPLICATION

AQUADUET may be applied at rates of 0.36 to 1.09 fluid ounces AQUADUET per acre by fixed wing or rotary aircraft equipped with suitable ULV application equipment. AQUADUET may also be diluted with water and applied by aerial ULV equipment so long as 1.09 fluid ounces per acre of AQUADUET is not exceeded.

Do not apply by fixed wing aircraft at a height less than 100 feet above the ground or canopy, or by helicopter at a height less than 75 feet above the ground or canopy, unless specifically approved by the state or tribe based on public health needs.

DILUTION

Reference the dilution charts on this label. If an alternative dilution rate is used, adjust the flow rate accordingly, provided the droplet size and spectrum remains within label specifications.

For a 4% Sumithrin product, dilute 1 gallon AQUADUET with 0.25 gallon water. Finished spray contains 0.338 lb Sumithrin & PBO and 0.067 lb prallethrin per gallon.

Dosage Description	Pounds a.i./Acre		Fluid oz Finished Spray per Acre	Flow Rates in Fl.oz./Minute at truck speeds of:			
	Prallethrin	Sumithrin/ PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	1.36	4.1	8.3	12.4	16.5
Recommended	0.00044	0.0022	0.83	2.5	5.1	7.6	10.1
Light Population	0.00036	0.0018	0.68	2.1	4.1	6.2	8.3
	0.00024	0.0012	0.45	1.4	2.8	4.1	5.5

For a 2.5% Sumithrin product, dilute 1 gallon AQUADUET with 1 gallon water. Finished spray contains 0.211 lb Sumithrin & PBO and 0.042 lb prallethrin per gallon.

Dosage Description	Pounds a.i./Acre		Fluid oz Finished Spray per Acre	Flow Rates in Fl.oz./Minute at truck speeds of:			
	Prallethrin	Sumithrin/ PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	2.18	6.6	13.2	19.9	26.5
Recommended	0.00044	0.0022	1.33	4.0	8.1	12.1	16.2
Light Population	0.00036	0.0018	1.09	3.3	6.6	9.9	13.2
	0.00024	0.0012	0.73	2.2	4.4	6.6	8.8

For a 2% Sumithrin product, dilute 1 gallon AQUADUET with 1.5 gallons water. Finished spray contains 0.169 lb Sumithrin & PBO and 0.034 lb prallethrin per gallon.

Dosage Description	Pounds a.i./Acre		Fluid oz Finished Spray per Acre	Flow Rates in Fl.oz./Minute at truck speeds of:			
	Prallethrin	Sumithrin/ PBO		5 MPH	10 MPH	15 MPH	20 MPH
High Population	0.00072	0.0036	2.73	8.3	16.5	24.8	33.1
Recommended	0.00044	0.0022	1.67	5.1	10.1	15.2	20.2
Light Population	0.00036	0.0018	1.36	4.1	8.3	12.4	16.5
	0.00024	0.0012	0.91	2.8	5.5	8.3	11.0

STORAGE & DISPOSAL

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

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

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

CONTAINER HANDLING & DISPOSAL:

[For 2.5-gallon Jugs]: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. 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 rinse 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.

[For refillable drums & totes]: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. 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 rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

FOR MORE INFORMATION CALL 1-800-323-5727

NOTICE: To the extent provided by law, seller 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/handling of this material when use and/or handling is contrary to label instructions.

AQUADUET™ is a trademark of Clarke Mosquito Control Products, Inc.

Sumithrin™ is a trademark of Sumitomo Company Ltd.

MANUFACTURED FOR:
CLARKE MOSQUITO CONTROL PRODUCTS, INC.
159 N. GARDEN AVENUE
ROSELLE, ILLINOIS 60172

AVAILABLE PACKAGING: 2.5 GAL, 30 GAL, 55 GAL, 275 GAL, TOTE

LOT NO.: Marked on Container Label

EPA REG. NO. 1021-2562-8329

EPA EST. NO. 8329-IL-001

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