

A water based formulation.

ACTIVE INGREDIENTS:

Sumithrin®: 3-Phenoxybenzyl-(1RS, 3RS, 1RS, 3SR)-2, 2-dimethyl-3-(2-methylprop-1-enyl) Cyclopropanecarboxylate	10.00%
Piperonyl Butoxide, Technical*	10.00%
OTHER INGREDIENTS	80.00%
	100.00%

* Equivalent to 8.00% (butylcarbityl) (6-propylpiperonyl) ether and 2.00% related compounds.

Contains 0.847 pounds of Technical SUMITHRIN® per Gallon and 0.847 pounds 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

- 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.

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.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

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. 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.

BEE WARNING: This product is 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.

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.

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 only.

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

AquaANVIL 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.

USE AREAS: For use in mosquito adulticiding programs involving outdoor residential and recreational areas where adult mosquitoes are present in annoying numbers, and in vegetation surrounding parks, woodlands, swamps, marshes, overgrown areas and golf courses. AquaANVIL may be applied over agricultural areas prior to harvest for the control of adult mosquitoes within or adjacent to these areas. Do not contaminate food, feed or drinking water. In treatment of corrals, feed lots, swine lots and zoos, cover any exposed drinking water, drinking water fountains and animal feed before application.

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 only when ground wind speed is greater than 1 mph. Air temperature should be greater than 50 F when conducting all types of applications.

Do not treat a site with more than 0.0036 pounds of sumithrin per acre in a twenty-four hour period. Do not exceed 1.0 pounds of sumithrin per acre in any site in any 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.

SPRAY DROPLET SIZE DETERMINATION: Ground-based Application: Spray equipment must be adjusted so that the volume median diameter (VMD) is 8 to 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 nozzles, 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: Apply AquaANVIL undiluted at a flow rate of 1.1 to 3.3 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 2.2 fluid ounces per minute is recommended. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.0012 to 0.0036 pounds of sumithrin and piperonyl butoxide per acre. Vary flow rate according to vegetation density and mosquito population. Use high flow rate in heavy vegetation or when populations are high. For proper application, mount the applicator so the nozzle is at least 4 1/2 feet above ground level and directed out the back of the vehicle. Failure to follow the above directions may result in reduced effectiveness.

AquaANVIL may also be diluted with water and applied so as not to exceed the maximum pounds of active ingredient per acre as shown 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 AQUAANVIL UNDILUTED FOR MOSQUITO CONTROL:

Pounds a.i./Acre		AquaANVIL Fl.oz/Acre	Flow rates in fluid oz./minute at truck speeds of:			
Sumithrin®	PBO		5 MPH	10 MPH	15 MPH	20 MPH
0.0036	0.0036	0.54	1.6	3.3	4.9	6.6
0.0024	0.0024	0.36	1.1	2.2	3.3	4.4
0.0012	0.0012	0.18	0.5	1.1	1.6	2.2

RATES TO USE DILUTED (1 TO 1 DILUTION RATIO) AQUAANVIL:

Pounds a.i./Acre		Finished Spray Fl.oz/Acre	Flow rates in fluid oz./minute at truck speeds of:			
Sumithrin®	PBO		5 MPH	10 MPH	15 MPH	20 MPH
0.0036	0.0036	1.09	3.3	6.6	9.9	13.2
0.0024	0.0024	0.73	2.2	4.4	6.6	8.8
0.0012	0.0012	0.36	1.1	2.2	3.3	4.4

RATES TO USE DILUTED (1 TO 2 DILUTION RATIO) AQUAANVIL FOR MOSQUITO CONTROL:

Pounds a.i./Acre		Finished Spray Fl.oz/Acre	Flow rates in fluid oz./minute at truck speeds of:			
Sumithrin®	PBO		5 MPH	10 MPH	15 MPH	20 MPH
0.0036	0.0036	1.63	4.9	9.9	14.8	19.8
0.0024	0.0024	1.09	3.3	6.6	9.9	13.2
0.0012	0.0012	0.54	1.6	3.3	4.9	6.6

AquaANVIL may also be applied undiluted with non-thermal, portable, motorized backpack equipment adjusted to deliver ULV particles of 50 to 100 microns VMD. Use 0.18 to 0.54 fl.oz. of the undiluted spray per acre (equal to 0.0012 to 0.0036 lb.ai./acre) as a 50 ft (15.2 m) swath while walking at a speed of 2 mph (3.2 kph).

AquaANVIL may be applied for Urban ULV mosquito control. For control of resting or flying adult mosquitoes, biting flies and biting midges 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. AquaANVIL may be applied using mechanical foggers, hand-held or truck mounted ULV equipment, non-thermal foggers or other spray equipment suitable for this application. Apply AquaANVIL at rates up to but not exceeding 0.0036 pounds sumithrin per acre per twenty-four hour period (not to exceed 1.0 pounds sumithrin per acre in any site in any year).

AERIAL APPLICATION: AquaANVIL may be applied at rates of 0.18 to 0.54 fluid ounces AquaANVIL per acre by fixed wing or rotary aircraft equipped with suitable ULV application equipment. AquaANVIL may also be diluted with water and applied by aerial ULV equipment so long as 0.54 fluid ounces per acre of AquaANVIL is not exceeded. Application shall be made at 75 feet to 300 feet for rotary aircraft and 100 to 300 feet for fixed-wing aircraft.

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.

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or 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 DISPOSAL FOR REFILLABLE DRUMS AND 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 appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

CONTAINER DISPOSAL FOR NONREFILLABLE CONTAINERS: Non-refillable 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: (CONTAINERS 5 GALLON CAPACITY OR SMALLER): 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. (CONTAINERS LARGER THAN 5 GALLON CAPACITY): Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Turn the container over onto its other 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.

**FOR MORE INFORMATION CALL:
1-800-323-5727**

Manufactured for: Clarke Mosquito Control Products, Inc.
159 North Garden Avenue
Roselle, IL 60172
For more information call: 1-800-323-5727

NOTICE: Clarke Mosquito Control Products, Inc. makes no warranty, express or implied concerning the use of this product other than 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.

SUMITHRIN™ - Trademark of Sumitomo Company Ltd.

AquaANVIL™ - Trademark of Clarke Mosquito Control Products, Inc.

EPA Reg. No.: 1021-1807-8329

NET CONTENTS: 55 gal.

EPA Est. No. 1021-MN-2

LOT NO.: _____

Material Safety Data Sheet

Date last revised: 17 August 2006

Page 1 of 2

I. General Information

Chemical Name and Synonyms Sumithrin Piperonyl Butoxide	Trade Name & Synonyms Aqua Anvil Water-based Adulticide
Chemical Family Synergized Synthetic Pyrethroid Emulsifiable Insecticide Concentrate	EPA Registration Number 1021-1807-8329
Proper DOT and ICAO/IATA Shipping Name Insecticides, Insect or Animal Repellent, Liquid N.O.S	DOT and ICAO/IATA Hazard Classification Non-Hazardous when shipped in quantities of less 119 gal.
Registrant Clarke Mosquito Control	Registrant's Phone Number (630) 894-2000
Registrant's Address 159 N. Garden Ave. Roselle, IL 60172	EMERGENCY PHONE: (888) 740-8712 or (952) 852-9509 CHEMTREC U.S. and Canada: (800) 424-9300 CHEMTREC All Other Areas: (703) 527-3887

II. Ingredients

Principal Hazardous Components	CAS #	Percent
d-Phenothrin (SUMITHRIN)	026002-80-2	10 %
Piperonyl Butoxide	000051-03-6	10 %
Ingredients not identified are proprietary or non-hazardous. Values are not specifications.		

III. Physical Data

(VOC): < 4.000%	Specific Gravity (H₂O = 1): 1.016 at 20 C (68 F)
Viscosity: 16 CPS at 24 C (75.2 F) Brookfield	Vapor Density (Air = 1): Heavier than air
Solubility in Water: Partially miscible in water	pH: 4.1
Appearance: Milky opaque white liquid	Odor: Sweet surfactant odor

IV. Fire & Explosion Hazard Data

Flash Point (Test Method : > 93.3 C (200 F) TAG Closed Cup
Extinguishing Media: Use water spray, foam, carbon dioxide, or dry chemical
Special Fire Fighting Procedures: Under fire conditions this product may support combustion and may decompose to give off toxic gasses such as carbon monoxide and nitrogen oxides. Use full faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with water stream.
Flammable Class: This product is NOT classified as flammable or combustible by OSHA

V. Health Hazard Data

Toxicity: Oral LD ₅₀ : Albino rat >5000 mg/kg Dermal LD ₅₀ : Albino rat > 5000 mg/kg Acute Inhalation LC50 EPA Toxicity Category IV
Primary Route of Entry: Inhalation, Dermal, Oral
Eyes: Causes mild to moderate eye irritation. Irritation clearing within 48 hours.
Skin: Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth). May be harmful if absorbed through the skin. Not considered to be a dermal sensitizer.
Ingestion: May be harmful if swallowed.
Inhalation: Excessive inhalation can cause nasal and respiratory irritation.
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogenic.

VI. EMERGENCY FIRST AID

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 the eye. Call a poison control center or doctor for treatment advice.
Skin: Remove contaminated clothing and wash affected areas of skin with soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Ingestion: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
Inhalation: Remove affected person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.
Note to Physician: For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

VII. Reactivity Data

Stable:	YES
Conditions to Avoid	Not compatible with strong acids or bases. Not compatible with strong oxidizers.
Hazardous Polymerization	No

VIII. Environmental Protection Procedures

Spill Response: Stop release, if possible without risk. Dike or contain release, if possible and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. **Small spills:** Absorb with appropriate absorbent such as sand, or vermiculite. Clean spill area of residues and absorbent. **Large Spill:** Collect products into drums, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent. **Water Spill:** Contains pyrethroids, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and washwater should be disposed of according to local, state, and federal regulations.

Storage: Store in a cool, dry place. Keep container closed. **KEEP OUT OF REACH OF CHILDREN.**

Waste Disposal: Do not contaminate water, food, or feed by storage or disposal. 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a landfill or by other approved State and local procedures. None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40 CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4).

Work Hygienic Practices: **DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA!** Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

Ecotoxicological Information: This product is toxic to aquatic organisms, including fish and aquatic invertebrates. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

IX . Special Protection Information

Eye Protection: Handlers and Applicators should take prudent precautions to avoid contact with eyes.

Skin Protection: Handlers and Applicators should wear long-sleeved shirt and long pants, socks and shoes.

Respiratory Protection: A respirator is not normally required when handling this product. Use in well ventilated areas.

Ventilation: Mechanical ventilation should be used when handling in enclosed spaces.

Other: OSHA, ACGIH and Supplier exposure limits have not been defined for the principle components of this product. **IMPORTANT.** Read and observe all precautions and instructions on the label.

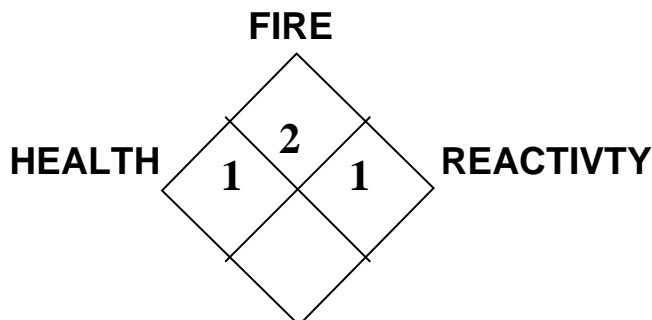
X. Additional Regulatory Information

**SARA Title III
311/312 Hazard Categories**
Fire: No Pressure Generating: No
Reactivity: No Acute: Yes

Section 313 Reportable Ingredients:

Ingredient	CAS #	% weight
Piperonyl Butoxide	000051-06-6	10.0 %
d-Phenothrin	02002-80-2	10.0 %

Section 302/304 Emergency Planning: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355). There are no components that are subject to emergency requirements under CERCLA Section 103(1) (40 CFR 302.4) in this formulation.



NFPA Code Key

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.**