

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.

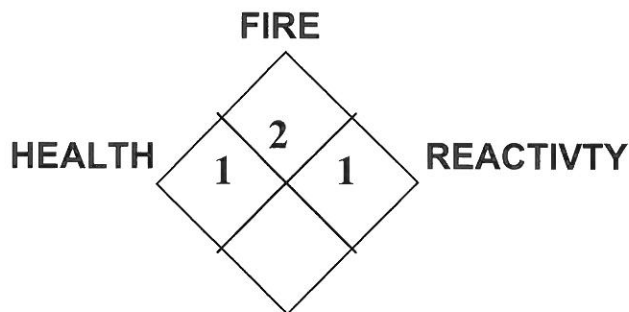
IX. Special Protection Information

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:									
	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>CAS #</th> <th>% weight</th> </tr> </thead> <tbody> <tr> <td>Piperonyl Butoxide</td> <td>000051-06-6</td> <td>10.0 %</td> </tr> <tr> <td>d-Phenothrin</td> <td>02002-80-2</td> <td>10.0 %</td> </tr> </tbody> </table>	Ingredient	CAS #	% weight	Piperonyl Butoxide	000051-06-6	10.0 %	d-Phenothrin	02002-80-2	10.0 %
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.**