Material Safety Data Sheet

Date last revised: 5 March 1999

I. General Information

Chemical Name and Synonyms Sumithrin Piperonyl Butoxide	**Trade Name & Synonyms** Anvil 10+10 ULV
Chemical Family Synergized Synthetic Pyrethroid	**EPA Registration Number** 1021-1688-8329
Proper DOT Shipping Name Environmentally Hazardous Substances, Liquid, N.O.S., Marine Pollutant (d-Phenothrin) [bulk only]	**DOT Hazard Classification** Class 9, UN 3082 [bulk only]
Manufacturer Clarke Mosquito Control Products, Inc.	**Manufacturer's Phone Number** (630) 894-2000
Manufacturer's Address 159 North Garden Avenue Roselle, Illinois 60172	**INFOTRAC (Emergency) Hotline** 1-800-535-5053

II. Ingredients

Principal Hazardous Components	CAS #	Percent
Sumithrin® [3-Phenoxybenzyl-(1RS, 3RS; 1RS, 3SR) 2,2-dimethyl-3-(2-methylprop-2-enyl) cyclopropane-carboxylate]	026002-80-2	10.00%
Piperonyl Butoxide [Alpha-(2-(1-butoxyethoxy)-4,5-methylenedioxy-2-propyltoluene]	000051-03-6	10.00%
White Mineral Oil	064742-55-8 (-56-9)	40 – 78%
Aromatic Hydrocarbon	064742-94-5	1 – 15%

III. Physical Data

Boiling Point (°F): Not Established	**Specific Gravity (H_2O = 1):** 0.884
Vapor Pressure (mm Hg.): Not Established	**Vapor Density (Air = 1):** Not Established
Solubility in Water: Emulsifiable	**pH:** Not Applicable
Appearance: Liquid, Clear with a light yellow tinge	**Odor:** Pungent aromatic, similar to smell of mothballs

IV. Fire & Explosion Hazard Data

Flash Point (Test Method : +200 °F (Tag Closed Cup)

Extinguishing Media: Foam, carbon dioxide, or dry chemical

Special Fire Fighting Procedures: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream. Contain the run-off, if possible, for proper disposal.

V. Health Hazard Data

Exposure Limits: Not established by OSHA or ACGIH

EMERGENCY FIRST AID

Skin Contact: CAUTION. Can cause a burning sensation on more sensitive areas (face, eyes, mouth). Prolonged or repeated exposure can cause irritation and reddening of the skin, possibly progressing into dermatitis. Immediately flush affected area with large amounts of water. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, get medical attention.

Eye: CAUTION. Can cause temporary irritation, tearing, and blurred vision. Immediately flush with large amounts of water for at least 15 minutes. If irritation persists, get medical attention

Inhalation: CAUTION. Excessive inhalation can cause nasal and respiratory irritation. Remove affected person to fresh air. Give oxygen, if necessary. If breathing has stopped, administer artificial respiration and get medical attention immediately

Ingestion: CAUTION. Can cause stomach irritation, resulting in nausea, cramps and vomiting. Excessive ingestion can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness. Do not induce vomiting because of aspiration pneumonia hazard. Call a physician or poison control center.

VI. Reactivity Data

Stability:	Stable
Incompatibility	Strong acidic or alkaline materials
Hazardous Decomposition Products	Not Applicable

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VII. Environmental Protection Procedures

Spill Response:
Shut off ignition sources. 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. Absorb with appropriate absorbent. For large spills, collect product into drums, etc., via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent. Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.

Storage:
Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, ignition sources and strong oxidizers. Emptied contained may retain product residues.

Waste Disposal:
Do not contaminate water when disposing of equipment wash waters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not mix with other waste materials.

VIII. Special Protection Information

Eye Protection: OSHA-approved safety glasses, goggles or face shield	**Skin Protection:** Handlers should wear protective clothing, chemical resistant gloves, and chemical resistant apron when cleaning mixing or loading.
Respiratory Protection: Not required	**Ventilation:** Mechanical ventilation should be used when handling this product in enclosed spaces.

Other: IMPORTANT. Read and observe all precautions and instructions on the label.

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.