

Material Safety Data Sheet

Date last revised: 24 June 2005

I. General Information

Chemical Name and Synonyms Permethrin Piperonyl Butoxide	Trade Name & Synonyms Biomist 4+4 ULV
Chemical Family Synergized Synthetic Pyrethroid	EPA Registration Number 8329-35
Proper DOT Shipping Name Agricultural Insecticide, N.O.I., Non-Hazardous	DOT Hazard Classification Non-Hazardous
Manufacturer Clarke Mosquito Control Products, Inc.	Manufacturer's Phone Number (630) 894-2000
Manufacturer's Address 159 North Garden Avenue Roselle, Illinois 60172	INFOTRAC (Transportation/Spill Emergency) 1-800-535-5053 Poison Control Center (Medical Emergency) 1-800-214-7753

II. Ingredients

Principal Hazardous Components	CAS #	Percent
Permethrin (3-Phenoxyphenyl)methyl (+) cis, trans-3-(2,2-dichlorethenyl)-2,2-dimethyl-cyclopropanecarboxylate	52645-53-1	4.0%
Piperonyl Butoxide, Technical – Equivalent to 80% (butylcarbityl) (6-propylperonyl) ether and 20% related compounds	51-03-6	4.0%
Inert Ingredients* * Contains petroleum distillates		92.0%

III. Physical Data

Boiling Point (°F): Not Established	Specific Gravity (H₂O = 1): 0.867
Vapor Pressure (mm Hg.): Not Established	Vapor Density (Air = 1): Not Established
Solubility in Water: Not Established	pH: Not Applicable
Appearance: Liquid, light brown color	Odor: Odorless

IV. Fire & Explosion Hazard Data

Flash Point (Test Method : > 300 °F (Tag Closed Cup)
Extinguishing Media: Foam, carbon dioxide, or dry chemical
Special Fire Fighting Procedures: Use self-contained breathing apparatus. Cool fire exposed areas and equipment. Do not use direct stream of water. Material may float and reignite.

V. Health Hazard Data

Toxicity: Oral LD₅₀: >5,000 mg/kg:	Single dose oral toxicity is moderate. Amounts ingested incidental to industrial handling are not likely to cause injury.
Dermal LD₅₀: >2,000 mg/kg	
Primary Route of Entry: Inhalation, Dermal, Oral	Effect of Acute Overexposure: Blurred vision
Exposure Limits: Not established by OSHA or ACGIH	

EMERGENCY FIRST AID

Skin Contact: Remove contaminated clothing and wash affected areas of skin with soap and water.
Eye: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or a doctor for treatment advice.
Inhalation: Remove affected person to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.
Ingestion: Call a physician or Poison Control Center immediately. Do not induce vomiting. Vomiting may cause aspiration pneumonia. Do not give anything by mouth to an unconscious person.
Note to Physician: Product contains petroleum distillate. Gastric lavage is indicated if material was taken internally. Vomiting may cause aspiration pneumonia.

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VI. Reactivity Data

Stability:	Stable. Do Not store near heat or flame
Incompatibility	Not Available
Hazardous Decomposition Products	None

VII. Environmental Protection Procedures

Spill Response: In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, Fuller's earth, etc. Clean spill area of residues and absorbent. Contaminated absorbent should be disposed of according to local, state and federal regulations.

Storage: Store product sealed and upright in its original labeled container at room temperature, in a dry locked place out of the reach of children. Do not contaminate water, food, or feed by storage or disposal. Avoid exposure to extreme temperatures.

Waste 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. For guidance, contact your State Water Board or Regional Office of the EPA.

Other Precautions: Do not contaminate water by cleaning of equipment or disposal of wastes.

VIII. Special Protection Information

Eye Protection: OSHA-approved safety glasses, goggles or face shield suggested when mixing or loading tank.	Skin Protection: Handlers should wear protective clothing and chemical resistant gloves when mixing or loading tank
Respiratory Protection: Not likely to be needed	Ventilation: Not required.
Other: IMPORTANT. Read and observe all precautions and instructions on the label.	

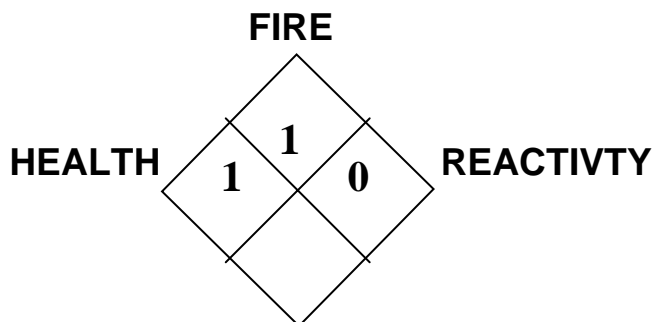
IX. Additional Regulatory Information

SARA Title III Data

Section 313: (Title III Superfund Amendment and Reauthorization Act)

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Ingredient	CAS Number	Percentage (by weight)
Permethrin	52645-53-1	4.0%
Piperonyl butoxide	51-03-6	4.0%



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.**