

Material Safety Data Sheet

Date last revised: 30 March, 1999

I. General Information

Trade 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 (830) 894-2000
Manufacturer's Address 189 North Garden Avenue Roselle, Illinois 60172	INFOTRAC (Emergency) Hotline 1-800-535-5053

II. Ingredients

Principal Hazardous Components	CAS #	Percent
Permethrin (3-Phenoxyphenyl)methyl (+) cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethyl-cyclopropanecarboxylate	52645-53-1	4.0%
Piperonyl Butoxide, Technical – Equivalent to 80% (butylcarbityl) (6-propylpiperonyl) ether and 20% related compounds	000051-03-8	4.0%
Inert Ingredients Contains petroleum distillates	72823-84-8	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 LD ₅₀ : >5,000 mg/kg Dermal LD ₅₀ : >2,000 mg/kg	Single dose oral toxicity is moderate. Amounts ingested incidental to industrial handling are not likely to cause injury.
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 plenty of soap and water.
Eye: Flush with plenty of water. Contact a physician if irritation persists.
Inhalation: Remove affected person to fresh air. Apply artificial respiration if indicated.
Ingestion: Call a physician or Poison Control Center immediately. Do not induce vomiting.
Note to Physician: Product contains petroleum distillate. Gastric lavage is indicated if material was taken orally. Vomiting may cause aspiration pneumonia.

VI. Reactivity Data

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

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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 upright at room temperature. Avoid exposure to extreme temperatures.

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

Other Precautions: This product is toxic to fish. Do not apply directly to lakes, streams, ponds, tidal marshes or estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. 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.

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.