

MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

Distributor: Paragon Professional Pest Control Products Address: 3635 Knight Road, Suite 7 Memphis, TN 38118 Emergency Phone: CHEMTREC 1-800-424-9300 Date Prepared: 02/02/09

SECTION 1 - CHEMICAL PRODUCT INFORMATION

Product Name: Demize EC
Chemical Name/Synonym: 3,7-Dimethyl-1,6-octadien-3-ol; 5-[2(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole
Chemical Family: Terpenoid; Benzodioxole
Formula: $C_{20}H_{34}O$; $C_{19}H_{30}O_5$
EPA Registration No.: 2724-769
RF Number: 2110

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Component (chemical, common name)	CAS Number	Weight	Tolerance	Component (chemical, common name)	CAS Number	Weight	Tolerance
Linalool	78-70-6	37.0%	-	Piperonyl Butoxide	51-03-6	40.0%	-

SECTION 3 - HAZARD INFORMATION

PRECAUTIONARY STATEMENTS DANGER - KEEP OUT OF THE REACH OF CHILDREN

Corrosive, causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield or safety glasses. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PRIMARY ROUTE OF ENTRY Dermal/Eye: Yes. Oral: No. Inhalation: Yes.

ACUTE TOXICITY

Oral: Harmful if swallowed.
Dermal: No specific hazard identified.
Inhalation: No specific hazard identified.

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Moderate irritant.
Eye Irritation: Corrosive, causes irreversible eye damage.
Sensitizer: Not a skin sensitizer.

SECTION 4 - FIRST AID MEASURE

Eye: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice.
Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Ingestion: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
Not to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5 - FIRE FIGHTING MEASURES

NFPA: Health: 3. Fire: 2. Reactivity: 0.
Flammability Class: Class IIIA Combustible liquid.
Flash Point: > 150°F
Explosive Limit (% of Volume): Not Available.
Extinguishing Media: Dry Chemical, CO₂, Foam.
Unusual Fire/Explosion Hazards: None Known.
Special Protective Equipment: Firefighters should wear full protective clothing including self-contained breathing apparatus.
Fire Fighting Procedures: Normal procedures. Do not allow fire fighting water to escape into waterways or sewers.
Combustion Products: Products of combustion are principally carbon dioxide, carbon monoxide, and water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken: Remove all sources of ignition. See section 8 for Personal Protective Equipment recommendations. Do not allow spill to enter water ways inhabited by aquatic organisms. Soak up with absorbent material and place in a suitable container for disposal.
Absorbents: Clay granules, dirt, or equivalent.
Incompatibles: None known.

SECTION 7 - HANDLING AND STORAGE

Handling: Do not get in eyes, on skin or on clothing. Corrosive, causes irreversible eye damage. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.
Storage: Do not contaminate water, food, or feed by storage. Store in a dry, cool place.

SECTION 8 - EXPOSURE CONTROL/PERSONAL MEASURES

Exposure Limits: Not available.
Ventilation: Use sufficient general ventilation.
Personal Protective Equipment: Prevent contact with eyes by wearing protective goggles. Depending upon application a face shield may be necessary. Wear chemical resistant gloves. Take appropriate precautions to prevent contact with clothing. Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear pale yellow liquid with woody/floral odor.
Vapor Pressure (mm Hg): > 0.4 mm Hg.
Bulk Density: 8.0 lbs./gallon.
Boiling Point: Not known.
Vapor Density (Air = 1): Not known.
Solubility: Miscible.
Melting Point: Not applicable (liquid).
Specific Gravity: 0.960
Evaporation Rate: Not known.
pH: Not known.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable.
Reactivity: Not reactive.
Incompatibility w/ Other Materials: None Known.
Decomposition Products: Products of combustion are principally carbon dioxide, carbon monoxide, and water.
Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Acute oral toxicity (rat): LD50 4,508 mg/kg (males) and 5,546 mg/kg (females); 5,000 mg/kg (combined).
Acute dermal toxicity: LD50 > 2,000 mg/kg.
Acute inhalation toxicity: 4-hr LC50 > 2.2 mg/L.
Eye irritation: Corrosive, causes irreversible eye damage.
Dermal Sensitization: Not a sensitizer.
Skin Irritation: Moderate irritant

CHRONIC TOXICITY (Specific to Active Ingredient(s))

Linalool is considered Generally Recognized as Safe (GRAS) by US FDA. Linalool is used in fragrances, detergents and soaps up to a level of 1.5%. There has been no evidence to date for ocular or respiratory effects arising from perfume evaporation and no evidence to indicate any carcinogenic hazard.

Piperonyl butoxide: An increase in the number of benign liver tumors in mice fed piperonyl butoxide technical at doses which far exceeded any anticipated daily human intake. Independent and industry toxicology experts have reviewed the data and agree that the findings of the study do not indicate a health risk to humans.

Carcinogenicity: NTP: No. IARC: No. OSHA: No.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY (Specific to Active Ingredient(s))

Linalool: No data available

Piperonyl butoxide: There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits. It is not considered to be teratogenic.

SECTION 12 - ECOLOGICAL INFORMATION

Linalool
Volatilizes from water surface with a half-life of 2.4 days in rivers.
The Koc in soil is estimated to be 75 and it is expected to be highly mobile in soil.
Half life in air expected to be 3.8 hours.
It is not expected to adsorb strongly to sediments.
It has low potential for bioaccumulation.

Piperonyl butoxide
Piperonyl butoxide is highly toxic to fish. Do not discharge effluents 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 these components to sewer systems without previously notifying the local sewage treatment plant authority. Do not contaminate water by cleaning of equipment or disposal of wastes.

SECTION 13 - DISPOSAL CONSIDERATIONS

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

SECTION 14 - TRANSPORT INFORMATION

DOT49CFR Description: Not applicable. Freight Classification: INSECTICIDES NOI Q/T POISON NMFC 102120 CL. 60.

SECTION 15 - REGULATORY INFORMATION

CERCLA (Superfund): Not regulated. SARA 311/312 HAZARD CATEGORIES Immediate Health: Yes. Delayed Health: No. Fire: Yes.
RCRA: Not regulated. Sudden Pressure: No. Reactivity: No.

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional consideration.