



- Kills Adult and Pre-Adult Fleas (Eggs, Larvae and Pupae)
- Deodorizes with a Pleasant Scent
- Contains The Botanically Derived Insecticide Linalool

ACTIVE INGREDIENTS:

Linalool .....	37%
Piperonyl butoxide, technical* .....	40%
OTHER INGREDIENTS: .....	23%
Total .....	100%

\* Equivalent to 32% of (butylcarbityl) (6-propylpiperonyl) ether and 8% related compounds.

Manufactured for:  
Paragon Professional  
Pest Control Products  
3635 Knight Rd. #7  
Memphis, TN 38118

EPA Reg. No. 2724-769-57076  
EPA Est. No. 11623-GA-1

Net Contents  
1 Pint (16 fl. oz.) (473 ml.)

**KEEP OUT OF REACH OF CHILDREN - DANGER**

See below for Additional Precautions

**PRECAUTIONARY STATEMENTS**

**DANGER**

Keep out of the reach of children

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER - 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.

**FIRST AID**

<p><b>IF SWALLOWED:</b></p> <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow</li> <li>• Do not induce vomiting unless told to do so by poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>	<p><b>IF IN EYES:</b></p> <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>	<p><b>IF ON SKIN OR CLOTHING</b></p> <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
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**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. 1-877-757-4943 for emergency medical treatment information.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of waste.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Use at a rate of 3 fluid ounces per gallon for each 1,000 square feet. For control of fleas, thoroughly apply a fine particle broadcast spray, using 3 ounces per gallon of water to infested rugs, carpets, pet resting areas, under cushions of furniture, cracks or crevices (non-food areas) and around baseboards. Old bedding should be removed and replaced with clean, fresh bedding after treatment. **Do not spray pet with this product. Do not use full strength.** For light infestation of fleas - Use at a rate of 2 ounces per gallon of water for each 1,000 square feet. See chart below for percent active ingredient in diluted product.

DILUTION RATE	% ACTIVE INGREDIENT (in diluted spray)
2 fl oz/gallon	0.578% Linalool
3 fl oz/gallon	0.867% Linalool

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **Storage:** Store in a cool, dry place. Keep container closed. **Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **Container Handling:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Cat. No. 2640

LC 110706

# MATERIAL SAFETY DATA SHEET

## MATERIAL IDENTIFICATION

Manufacturer: Wellmark International Address: 1501 East Woodfield Road, Suite 200 West Schaumburg, IL 60173 Emergency Phone: 1-888-914-2082  
Transportation Emergency Phone: CHEMTREC 1-800-424-9300

## SECTION 1 - CHEMICAL PRODUCT INFORMATION

Product Name: Demize EC  
Chemical Name/Synonym: 3,7-Dimethyl-1,6-octadiene-3-ol; 5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole  
Chemical Family: Terpenoid; Benzodioxole  
Formula:  $C_{25}H_{40}O$ ;  $C_{11}H_{16}O_2$   
EPA Registration No.: 2724-769-57076  
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, CO<sub>2</sub>, 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.

**SUBCHRONIC TOXICITY [Specific to Active Ingredient(s)]**  
Linalool: In a 90 day study in rats the NOAEL > 250mg/kg bw/day.

**MUTAGENICITY [Specific to Active Ingredient(s)]**  
Linalool is not a mutagen.  
Piperonyl butoxide is not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberrations in Chinese hamster ovary (CHO) cells, CHO.HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

**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 D/T POISON NNFC 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.