

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078907651

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078907383 078907384 078907385 078907386 078907387 078907652 078907653 078907654 078907655

## MATERIAL SAFETY DATA SHEET

### Vet-Kem<sup>®</sup> Ovitrol<sup>®</sup> X-Tend<sup>™</sup> Flea & Tick Spot On<sup>®</sup> for Dogs

**Manufacturer:** Wellmark International  
**Address:** 1501 East Woodfield Road, Suite 200 W Schaumburg, IL 60173  
**Emergency Phone:** Prosar 1-800-234-2269  
**Transportation Emergency Phone:** CHEMTREC: 1-800-424-9300

#### 1. CHEMICAL PRODUCT INFORMATION

**Product Name:** Vet-Kem<sup>®</sup> Ovitrol<sup>®</sup> X-Tend<sup>™</sup> Flea & Tick Spot On<sup>®</sup> for Dogs  
**Chemical Name/Synonym:** (S)-Methoprene; isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate, Etofenprox: 2-(4-ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether, Piperonyl Butoxide; 5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole  
**Chemical Family:** Terpenoid, Pyrethroid, Benzodioxole  
**Formula:** C<sub>19</sub>H<sub>34</sub>O<sub>3</sub> / C<sub>25</sub>H<sub>28</sub>O<sub>3</sub> / C<sub>19</sub>H<sub>30</sub>O<sub>5</sub>  
**EPA Registration No.:** 2724-811  
**RF Number:** RF2164 A/T COMBO

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
(S)-Methoprene: Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate	65733-16-6	3.60%	
Etofenprox	80844-07-1	30.00%	
Piperonyl butoxide: 5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole	51-03-6	5.00%	

#### 3. HAZARD INFORMATION

**PRECAUTIONARY STATEMENTS**  
KEEP OUT OF REACH OF CHILDREN  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION**

FOR EXTERNAL USE ONLY. CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH EYES OR CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE TOILET. REPEATED EXPOSURE TO ETOFENPROX CAN CAUSE SKIN IRRITATION.

**PRIMARY ROUTE OF ENTRY**    Dermal/Eye: Yes.                    Oral: No.                    Inhalation: No.  
**ACUTE TOXICITY**                    Oral: No specific hazard identified.  
   Dermal: No specific hazard identified.  
   Inhalation: No specific hazard identified.

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## OTHER TOXICOLOGICAL INFORMATION

**Skin Irritation:** Repeated exposure to etofenprox can cause skin irritation.

**Eye Irritation:** Mildly irritating.

**Sensitizer:** Not a skin sensitizer.

## 4. FIRST AID MEASURES

- If in eyes:**
- 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.

**Note to Physician:** There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

## 5. FIRE FIGHTING MEASURES

**NFPA Rating:** **Health: 1** **Fire: 1** **Reactivity: 0**

**Flammability Class:** Class IIIB liquid.

**Flash Point:** 135.9°C (PMCC).

**Explosive Limits (% of Volume):** Not available.

**Extinguishing Media:** Water, CO<sub>2</sub>, dry chemicals, foam.

**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 water-ways or sewers.

**Combustion Products:** Carbon dioxide and carbon monoxide.

**Unusual Fire/Explosion Hazards:** None known.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken:** Do not allow spill to enter water ways or sewers. Soak up with absorbent material and place in a suitable container for disposal.

**Absorbents:** Clay granules, sawdust, dirt or equivalent.

**Incompatibles:** Strong oxidizing agents.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**Storage:** Store in a cool area away from heat or open flame. Store away from children and animals.

## 8. EXPOSURE CONTROL/PERSONAL MEASURES

**Exposure Limits:** Not available.

**Ventilation:** Use with adequate ventilation.

**Personal Protective Equipment:** End users should refer to product labeling for PPE requirements. Avoid contact with skin, eyes or clothing. If contact with liquid is anticipated, impervious gloves and safety glasses are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor:</b>	Oily, yellowish liquid with weak, neutral, chemical odor.
<b>Boiling Point:</b>	Not available.
<b>Melting Point:</b>	Not available.
<b>Vapor Pressure (mm Hg):</b>	Not available.
<b>Vapor Density (Air = 1):</b>	Not available.
<b>Specific Gravity:</b>	0.994.
<b>Bulk Density:</b>	8.3 lbs/gallon.
<b>Solubility:</b>	Not soluble.
<b>Evaporation Rate:</b>	Not available.
<b>pH:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Reactivity:</b>	Not reactive.
<b>Incompatibility w/ Other Materials:</b>	Strong oxidizing agents.
<b>Decomposition Products:</b>	None except oxides of carbon from combustion.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Acute oral toxicity: LD50 >5,000 mg/kg  
Acute dermal toxicity: LD50 >5,000 mg/kg  
Skin irritation: slightly irritating  
Eye irritation: mildly irritating  
Not a dermal sensitizer

### CHRONIC TOXICITY [Specific to Active Ingredient(s)]

**Methoprene** is not considered a carcinogen. The NOEL for non-carcinogenic effects in an 18 month mouse study was 250 ppm. .

**Etofenprox** is not listed as a carcinogen by NTP or IARC and is not regulated by OSHA.

In rats the target organs are the liver and thyroid. The NOAEL for chronic toxicity is 3.7 mg/kg/day for male rats. The target organ in mice is the kidney. The NOAEL is 3.1 mg/kg/day for mice.

**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)]

**Methoprene** is not a teratogen. The NOEL for maternal and embryo toxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 2500 ppm.

**Etofenprox** is not a teratogen. It does not have adverse effects on reproduction.

**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.

### **MUTAGENICITY [Specific to Active Ingredient(s)]**

**Methoprene** is not a mutagen.

**Etofenprox** 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.

## **12. ECOLOGICAL INFORMATION**

### **ENVIRONMENTAL FATE**

**Hydrolysis:** Not determined.

**Photolysis:** Not determined.

**Soil half life:** Not determined.

**Water solubility:** Not determined.

### **ECOTOXICITY [Active Ingredients Only]**

#### **Methoprene**

**Acute Toxicity:** **fish:** LC<sub>50</sub> (trout): 760 ppb, (bluegill): > 370 ppb ((S)-Methoprene);  
**aquatic invertebrates:** LC<sub>50</sub> (Daphnia): 360 ppb ((S)-Methoprene).

#### **Etofenprox**

**Acute Toxicity:** **Rainbow trout:** LC<sub>50</sub> = 3.3 ppb  
**Bluegill:** LC<sub>50</sub> = 8.5 ppb

#### **Piperonyl butoxide**

**Acute Toxicity:** Highly toxic to fish

## **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.

## **14. TRANSPORT INFORMATION**

**DOT49CFR Description:** Not Regulated

**Freight Classification:** Insecticide or Repellent NMFC # 155050

## **15. REGULATORY INFORMATION**

**CERCLA (Superfund):** Not regulated.

**RCRA:** Not regulated.

### **SARA 311/312 HAZARD CATEGORIES**

**Immediate Health:** Yes (Irritant).

**Delayed Health:** No.

**Fire:** No.

**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 considerations.*

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