

MATERIAL SAFETY DATA SHEET
Vet-Kem® Siphotrol® X-Tend™ Carpet Aerosol

Manufacturer: Wellmark International

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Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Vet-Kem® Siphotrol® X-Tend™ Carpet Aerosol

Chemical Name/Synonym: Etofenprox: 2-(4-ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether

Pyriproxyfen: 2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine

Prallethrin: (RS)-2-methyl-4-oxo-3-(2-propynyl) cyclopent-2-enyl (1RS)-cis, trans chrysanthemate

MGK 264: N-octyl bicycloheptane dicarboximide

Chemical Family: Pyrethroid

Formula: C₂₅H₂₈O₃ / C₂₀H₁₉N O₃ / C₁₉H₂₄O₃ / C₁₇H₂₅N O₂

EPA Registration No.: 2724-702

RF Number: 2053

2. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Component (chemical, common name)</u> | <u>CAS Number</u> | <u>Weight</u> | <u>Tolerance</u> |
|--|-------------------|---------------|--|
| Etofenprox: 2-(4-ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether | 80844-07-1 | 0.50% | Not est. |
| Pyriproxyfen: 2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine | 95737-68-1 | 0.02% | Not est. |
| Prallethrin: (RS)-2-methyl-4-oxo-3-(2-propynyl) cyclopent-2-enyl (1RS)-cis, trans chrysanthemate | 23031-36-9 | 0.30% | Not est. |
| MGK-264: N-octyl bicycloheptane dicarboximide | 113-48-4 | 0.50% | Not est. |
| Acetone | 67-64-1 | 10.00% | 1000 ppm TWA (OSHA) 500 ppm TWA (ACGIH). |
| Inert ingredients (non-hazardous and/or trade secret) | | 88.68% | |

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENTS
KEEP OUT OF REACH OF CHILDREN
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
REPEATED EXPOSURE TO ETOFENPROX CAN CAUSE SKIN IRRITATION
CAUTION

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

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:** Slightly irritating.
Eye Irritation: Minimally irritating.
Sensitizer: Not a skin sensitizer.

4. FIRST AID MEASURES

- Skin:** Take off contaminated clothing. Rinse skin immediately with soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Note to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

- NFPA Rating:** **Health: 2.** **Fire: 2.** **Reactivity: 0.**
Flammability Class: Level 1 aerosol.
Flash Point/Flame Extension: Flame extension = 0 inch.
Explosive Limits (% of Volume): Not available.
Extinguishing Media: Water, dry chemical, foam, CO₂.
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: Contents under pressure.

6. ACCIDENTAL RELEASE MEASURES

- Steps to be taken:** Absorb spills with an inert material. Place in container for disposal. Do not allow spill to enter waterways or sewers.
Absorbents: Use clay granules or other appropriate inert absorbent material.
Incompatibles: Strong oxidizers.

7. HANDLING AND STORAGE

- Handling:** Wash hands with soap and water after handling material. Avoid contact with skin, eyes, or clothing.
Storage: Do not store above 130°F. Do not store near open flames. Store in a cool, dry place away from children. Do not contaminate water, food, or feed, by storage.

8. EXPOSURE CONTROL / PERSONAL MEASURES

- Exposure Limits:** Not available for product mixture. Acetone: 500 ppm (ACGIH TWA) 1000 ppm (OSHA TWA).
Ventilation: Use with ventilation adequate to keep airborne levels below recommended exposure limits.
Personal Protective Equipment: Use protective eyewear, clothing and impervious gloves as necessary to prevent contact with skin, eyes or clothing. Under normal use conditions, a respirator is not required. If adequate ventilation is not available to control airborne levels below recommended exposure limits, use of appropriate respiratory protection may be necessary.

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------|--|
| Appearance and Odor: | Milky, slightly amber, liquid emulsion; characteristic light acetone odor. |
| Boiling Point: | Not available. |
| Melting Point: | Not available. |
| Vapor Pressure (mm Hg): | Not available. |
| Vapor Density (Air = 1): | Not available. |
| Specific Gravity: | 0.986. |
| Bulk Density: | 8.2 lbs / gallon. |
| Solubility: | Disperses in water (emulsion). |
| Evaporation Rate: | Not available. |
| pH: | 6.93. |

10. STABILITY AND REACTIVITY

| | |
|--|-------------------------------|
| Stability: | Stable. |
| Reactivity: | Not reactive. |
| Incompatibility w/ Other Materials: | Strong oxidizers. |
| Decomposition Products: | None except oxides of carbon. |
| Hazardous Polymerization: | Will not occur. |

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Acute oral toxicity (rat): LD50 >5,000 mg/kg
Acute dermal toxicity: LD50 >5,000mg/kg
Acute inhalation toxicity: 4-hr LC50 >2.02 mg/L
Skin irritation: Slightly irritating
Eye irritation: Minimally irritating
Dermal Sensitization: Not a sensitizer

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

Étofenprox 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.

Pyriproxyfen is not a carcinogen. In a 1-Year feeding study (dog), the No Observable Effect Level was 30 mg/kg/day. In an 18-Month feeding study (mouse), there was no evidence of increased tumor incidence when fed in the diet at 0, 120, 600 & 6000 ppm/day. The NOEL for systemic effects was 120 ppm/day. In a 2-Year chronic feeding study (rat), there was no evidence of increased tumor incidence when fed in the diet at 0, 120, 600 & 6000 ppm/day. The NOEL for systemic effects was 600 ppm/day for males, 120 ppm/day for females.

Prallethrin is not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

N-Octyl bicycloheptene dicarboximide Chronic toxicity NOEL for rats was 50mg/kg/day for rats and 250 ppm in the diet for dogs. The NOEL for oncogenicity was 450 mg/kg/day for rats and 50 mg/kg/day for mice.

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

SUBCHRONIC TOXICITY [Specific to Active Ingredient(s)]

Etofenprox is a mild skin irritant after 4-weeks of treatment. No systemic toxicity from dermal exposure was observed at doses up to 1000 mg/kg/day.

N-Octyl bicycloheptene dicarboximide The three-month subchronic inhalation NOEL for rats was 400 mg/m³.

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

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

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

N-Octyl bicycloheptene dicarboximide The NOEL for developmental effects in rats was 300 mg/kg/day for maternal toxicity and 1000 mg/kg/day for developmental toxicity. The NOEL for fetotoxicity in rabbits was 100 mg/kg/day.

MUTAGENICITY [Specific to Active Ingredient(s)]: **Etofenprox** is not a mutagen. **Pyriproxyfen** is not a mutagen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Hydrolysis: Not determined.

Photolysis: Not determined.

Soil half life: Not determined.

Water solubility: Not determined.

ECOTOXICITY Toxic to aquatic organisms.

Etofenprox

Acute Toxicity: **fish:** LC₅₀ (trout): 3.3 ppb, (bluegill): 8.5 ppb.

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: Consumer Commodity ORM-D.

Freight Classification: Insecticides Spray NMFC I-102120 CL. 60.

15. REGULATORY INFORMATION

CERCLA (Superfund): Acetone (5000 lbs).

RCRA: D001.

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes.

Delayed Health: No.

Fire: Yes.

Sudden Pressure: Yes.

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.