

MATERIAL SAFETY DATA SHEET
VET-KEM® SIPHOTROL® PLUS AREA TREATMENT PUMP SPRAY FOR HOMES

Manufacturer: Wellmark International
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Emergency Phone: 1-800-766-7661
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Vet-kem® Siphotrol® Plus Area Treatment Pump Spray For Homes
Chemical Name/Synonym: (S)-Methoprene (Isopropyl(2E,4E,7S)-11-methoxy-3,7,11-trimethyl- 2,4-dodecadienoate), Permethrin;(3-phenoxyphenyl)methyl(+/-)cis-trans-3- (2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
Chemical Family: Terpenoid, Pyrethroid
Formula: C19 H34 O3, C21 H20 Cl2 O3
EPA Registration No.: 2724-401
RF Number: 299

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	0.01%	Not established
Permethrin: (3-phenoxyphenyl)methyl(+/-)cis-trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclo-propanecarboxylate	52645-53-1	0.28%	Not established
Inert ingredients (non-hazardous and/or trade secret)		99.71%	

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

Caution: Keep out of the reach of children. Harmful if absorbed through the skin. Causes eye irritation. Avoid contact with skin., eyes, or clothing. Wash thoroughly after handling. Leave treated areas and do not return for at least one hour. Do not spray on pets or humans. Avoid contamination of food or foodstuffs. Do not use in edible product areas or food processing plants, restaurants or other areas where food is commercially prepared, processed or stored. Do not use in serving areas while food is exposed.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Symptoms of intoxication to synthetic pyrethrins are hypersensitivity, tremors, diarrhea. Intoxication to solvents include dizziness, headache, nausea, narcosis, eye irritation, G.I. tract irritation.

PRIMARY ROUTE OF ENTRY **Dermal/Eye:** Yes **Oral:** Yes **Inhalation:** Yes

ACUTE TOXICITY

Oral: LD50 (rat): >34,000 mg/kg (HDT) (Based on (S)-Methoprene)

Dermal: LD50 (rabbit): >2,000 mg/kg (HDT) (Based on (S)-Methoprene)

Inhalation: LC50 (rat) 5.19 mg/L air (Based on (S) Methoprene)

OTHER TOXICOLOGICAL INFORMATION

- Skin Irritation:** Non-irritating (rabbit) (Based on (S) Methoprene)
Eye Irritation: Mild to moderate irritant (rabbit) (Based on (S) Methoprene)
Sensitizer: Not a sensitizer (guinea pig) (Based on (RS) Methoprene)

4. FIRST AID MEASURES

- 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 eyes.
- Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
- Ingestion:** Call a physician or poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Inhalation:** Remove person to fresh air.
- Note to Physician:** Treat symptomatically.

5. FIRE FIGHTING MEASURES

- NFPA Rating:** **Health: 0** **Fire: 2** **Reactivity: 0**
- Flammability Class:** Combustible Liquid
- Flash Point:** 144F
- Explosive Limits (% of Volume):** N/A
- Extinguishing Media:** Water, foam, CO2, dry chemical
- 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:** Nitrogen oxides, isobutylene gases, carbon monoxide, carbon dioxide
- Unusual Fire/Explosion Hazards:** Hazardous decomposition products

6. ACCIDENTAL RELEASE MEASURES

- Steps to be taken:** Do not allow spill to enter waterways inhabited by aquatic organisms. Soak up with absorbent material and place in a suitable container for disposal.
- Absorbents:** Clay granules, sawdust, dirt or equivalent.
- Incompatibles:** Strong acids and alkalis, strong oxidizers

7. HANDLING AND STORAGE

- Handling:** Avoid contact with eyes or skin. Wash thoroughly with soap and water after handling.
- Storage:** Do not use or store near heat or open flame. Store in original container, away from children. Protect from freezing or high temperatures.

8. EXPOSURE CONTROL / PERSONAL MEASURES

- Exposure Limits:** Not established
- Ventilation:** General ventilation is sufficient.
- Personal Protective Equipment:** If prolonged exposure is anticipated it is recommended for users and handlers to wear a MSHA/NIOSH approved organic vapor/pesticide respirator, impervious gloves, goggles with side shields, and other appropriate clothing to avoid skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odor:** Opaque to translucent liquid
- Boiling Point:** N/A
- Melting Point:** Not applicable
- Vapor Pressure (mm Hg):** N/A
- Vapor Density (Air = 1):** Unknown
- Specific Gravity:** 1.0000+/-0.01 (H₂O=1)
- Bulk Density:** 8.3 lbs/gal
- Solubility:** Miscible with water
- Evaporation Rate:** N/A
- pH:** Not known

10. STABILITY AND REACTIVITY

- Stability:** Stable
- Reactivity:** Nonreactive
- Incompatibility w/ Other Materials:** Strong acids and alkalis, strong oxidizers
- Decomposition Products:** Nitrogen oxides, isobutylene gases, carbon monoxide, carbon dioxide
- Hazardous Polymerization:** Will not occur

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

Methoprene is not considered as an oncogenic compound. The NOEL for non-carcinogen effects in an 18-month mouse study was 250ppm. (Based on RS-Methoprene Technical)

Rats fed 3,000 ppm of Permethrin in their diet for 6 months showed typical motor symptoms in the early stages of the study but no other changes except for a slight increase in liver weight associated with an increase in smooth endoplasmic reticulum. Rats fed 5,000 ppm or more for 14 days developed acute poisoning and deaths occurred. Animals showing severe symptoms showed axonal swelling and myelin degeneration in the sciatic nerve. The no observed effect level (NOEL) in rats administered Permethrin ranged from 20/mg/kg diet (in studies lasting 90 days) to 1,500 mg/kg diet (in a 6-month study).

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

Methoprene is not a teratogenic compound. The NOEL for maternal and embryotoxicity in rabbits was 200/mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm. (Based on RS-Methoprene Technical)

Permethrin was fed to pregnant rats at levels of 500, 1,000, 1,500, 2,000, 2,500, 3,000, 3,500 and 4,000 mg/kg diet from day 6-15 of gestation. No significant dose-related effects on the fetuses was observed. These results confirm that Permethrin possesses low mammalian toxicity. Rats were fed Permethrin at dose levels of 20 and 100 mg/kg diet in a 3-generation reproduction study. There was no effect on mortality, mating, pregnancy, or fertility. Pup survival and growth were unaffected. Permethrin does not adversely affect reproduction in the rat.

MUTAGENICITY [Specific to Active Ingredient(s)]

Methoprene is not a mutagenic compound. (Based on RS-Methoprene Technical)

Permethrin is not a mutagenic compound.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Based on (RS)-Methoprene]

Hydrolysis: T1/2 > 4 week

Photolysis: T1/2 < 10 hours

Soil half life: ~ 10 days

Water solubility: < 2 ppm

ECOTOXICITY [Based on (S)-Methoprene]

Acute Toxicity: fish:LC50 (trout): 760 ppb, (bluegill): > 370 ppb (Methoprene); aquatic invertebrates:LC50 (Daphnia): 360 ppb (Methoprene)

13. DISPOSAL CONSIDERATIONS

If empty: Do not reuse the container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. TRANSPORT INFORMATION

DOT49CFR Description: Not regulated by U.S. DOT

Freight Classification: Insecticides, Animal, N.O.I. other than poison NMFC 102120 Class 60

15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated

RCRA: Not regulated as hazardous

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes (irritation)

Delayed Health: No

Fire: Yes (combustible)

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.