

SAFETY DATA SHEETS

This SDS packet was issued with item:

078934223

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

078944631

----- MATERIAL SAFETY DATA SHEET -----

Wellmark

VET-KEM(R) OVITROL(R) PLUS WATER-BASED FLEA SPRAY

DATE ISSUED: July 17, 1997
 SUPERSEDES: April 26, 1996
 MANUFACTURER: WELLMARK INTERNATIONAL
 1000 TOWER LANE
 BENSENVILLE, IL 60106
 EMERGENCY PHONE: 1-800-950-8385
 TRANSPORTATION EMERGENCY PHONE: CHEMTREC: 1-800-424-9300

 1. CHEMICAL PRODUCT INFORMATION

PRODUCT NAME: Vet-Kem(R) Ovitrol(R) Plus Water-Based Flea Spray
 CHEMICAL NAME/SYNONYM: Mixture of Tetrachlorvinphos; 2-Chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate and (S)-Methoprene; Isopropyl (2E, 4E, 7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate
 CHEMICAL FAMILY: Mixture of Organophosphate and Insect Growth Regulator (IGR).
 FORMULA: Tetrachlorvinphos: C10 H9 Cl4 O4 P
 (S)-Methoprene: C19 H34 O3
 EPA REGISTRATION NO.: 2596-140-2724
 RF NUMBER:

 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT (chemical, common name) / CAS NUMBER	WEIGHT	TOLERANCE
Tetrachlorvinphos: 2-Chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate/22248-79-9	1.07%	Not Established
(S)-Methoprene: Isopropyl (2E, 4E, 7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate/65733-16-6	0.07%	Not Established
Inert Ingredients (trade secret and/or nonhazardous)	98.85%	Not Applicable

 3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT: Keep out of reach of children. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands and exposed skin thoroughly with soap and water after handling. It is not advisable to use this product or similar pesticides on puppies or kittens less than 6 weeks of age.
 SIGNS AND SYMPTOMS OF OVEREXPOSURE: Depending upon exposure tetrachlorvinphos may produce symptoms consistent with cholinesterase inhibition.
 PRIMARY ROUTE OF ENTRY:
 DERMAL/EYE: Yes
 ORAL: No
 INHALATION: Yes
 ACUTE TOXICITY: (Active Ingredients Only)
 ORAL: LD50 (rat): >5,000 mg/kg
 DERMAL: LD50 (rat): >2,000 mg/kg
 INHALATION: LC50 rat 6.54 mg/l (four hrs.)
 OTHER TOXICOLOGICAL INFORMATION:
 SKIN IRRITATION: Slight irritant
 EYE IRRITATION: Mild irritant
 SENSITIZER: Sensitizer

 4. FIRST AID MEASURES

EYE: Flush eyes with plenty of water. Call a physician if irritation persists.
 SKIN: Wash hands and exposed skin thoroughly with soap and water after handling.
 INGESTION: Contact a physician, veterinarian, or poison control center.
 INHALATION: Remove to fresh air.
 NOTE TO PHYSICIAN: Treat symptomatically.

 5. FIRE FIGHTING MEASURES

NFPA RATING:
 HEALTH: 1
 FIRE: 0
 REACTIVITY: 0
 FLAMMABILITY CLASS: Non-flammable liquid
 FLASH POINT: Exact flashpoint not determined. >212 deg F (Closed Cup)
 EXPLOSIVE LIMITS (% OF VOLUME): Not Potentially Explosive. Flammability limits have not been tested.
 EXTINGUISHING MEDIA: Foam, CO2
 SPECIAL PROTECTIVE EQUIPMENT: None
 FIRE FIGHTING PROCEDURES: Firefighters should wear full protective clothing including self contained breathing apparatus.
 COMBUSTION PRODUCTS: Not Determined
 UNUSUAL FIRE/EXPLOSION HAZARDS: None

 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN: Soak up with absorbent material and place in container for disposal.
 ABSORBENTS: Clay granules, sawdust, dirt, or equivalent.
 INCOMPATIBLES: None known.

 7. HANDLING AND STORAGE

HANDLING: Wash hands, face, and arms thoroughly with soap and water after handling this product. Avoid contact with eyes or clothing. Do not spray in eyes. Do not reuse empty container.
 STORAGE: Do not contaminate water, food, or feed by storage or disposal.

 8. EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS: Not Established
 VENTILATION: General ventilation should be adequate.
 PERSONAL PROTECTIVE EQUIPMENT: N/A

 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Light tan to white, opaque liquid. Modified floral-type fragrance.
 BOILING POINT: Not Determined
 MELTING POINT: Not Determined
 VAPOR PRESSURE (mm Hg): Not Determined
 VAPOR DENSITY (AIR = 1): Not Determined
 SPECIFIC GRAVITY: 0.999
 BULK DENSITY: 8.3 lbs./gal.
 SOLUBILITY: Immiscible in water.
 EVAPORATION RATE: Not Determined
 pH: 7.5 at room temperature (adjusted with Sodium Hydroxide).

 10. STABILITY AND REACTIVITY

STABILITY: Stable
 REACTIVITY: Non-reactive
 INCOMPATIBILITY WITH OTHER MATERIALS: None known.
 DECOMPOSITION PRODUCTS: None known for this product.
 HAZARDOUS POLYMERIZATION: Will not occur.

----- MATERIAL SAFETY DATA SHEET -----

Wellmark

VET-KEM(R) OVITROL(R) PLUS WATER-BASED FLEA SPRAY

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]: (S)-Methoprene is not considered as an oncogenic compound. No evidence of compound related gross or histopathic lesions, organ weight variations or tumorigenic effects were observed at dietary levels up to and including 5,000 ppm (HDT-highest dose tested) in a 2-year chronic toxicity/oncogenic study in rats. Tetrachlorvinphos. An NOEL of 6.25 mg/kg bw was observed in a two year rat study. C-cell hyperplasia/adenoma of the thyroid, and adrenal cortical adenomas in females only, were observed at 425 mg/kg body weight in a two year rat study.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]: (S)-Methoprene did not affect the reproductive performance of rats when tested at levels up to 2,500 ppm over a period of 3 generations. The NOEL for reproductive toxicity in rats was 500 ppm. In rabbits, no teratogenic effects were observed at levels up to 2,000 mg/kg/day, the maximum tolerated dose for maternal toxicity. The NOEL in rats for tetrachlorvinphos was 50 mg/kg bw.

MUTAGENICITY [Specific to Active Ingredient(s)]: (S)-Methoprene is not a mutagenic compound. It has been found negative in the following tests. a) Ames Test (in vitro), b) Chromosomal aberration in CHO cells (in vitro), and c) Dominant lethal assay (in vitro test for chromosomal damage) test. Tetrachlorvinphos was found to be non-mutagenic in gene mutation assay and positive in micronucleus test.

OTHER [Specific to Active Ingredient(s)]: There was no evidence of delayed neurotoxicity for tetrachlorvinphos. U.S. EPA has evaluated this product's toxicity as part of the U.S. registration process. EPA requires extensive toxicity tests be performed before any pesticide chemical is approved for use. Based on their review of test results, they have determined that no significant risk to users, the public, or the environment exists when this product is used as indicated on the product label.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: (Active Ingredients Only)
 HYDROLYSIS: T1/2 > 4 weeks ((S)-Methoprene)
 PHOTOLYSIS: T1/2 < 10 hours ((S)-Methoprene)
 SOIL HALF LIFE: ~10 days ((S)-Methoprene)
 WATER SOLUBILITY: < 2 ppm ((S)-Methoprene); 15 ppm (tetrachlorvinphos)

ECOTOXICITY (Active Ingredients Only):
 ACUTE TOXICITY: FISH
 LC50 (trout): 760 ppb, (bluegill): > 370 ppb ((S)-Methoprene)
 LC50 (trout): 430 ppb, (bluegill): 530 ppb (tetrachlorvinphos)
 ACUTE TOXICITY: AQUATIC INVERTEBRATES:
 LC50 (Daphnia): 360 ppb ((S)-Methoprene)

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state, and federal regulations as a consumer good containing a pesticide. Do not reuse empty pouch and dispose in trash collection.

14. TRANSPORT INFORMATION

DOT49CFR DESCRIPTION: N/A
 FREIGHT CLASSIFICATION: Insecticides, N.O.I. O/T Poison
 NMFC I-102120 cl.60

15. REGULATORY INFORMATION

CERCLA (Superfund): No
 RCRA: No
 SARA 311/312 HAZARD CATEGORIES:
 IMMEDIATE HEALTH: Yes (irritation, sensitization)
 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.

 Vet-Kem(R) Ovitrol Plus(R) Water-Based Flea Spray is a registered trademark of Sandoz Ltd.
 Vet-Kem(R) Ovitrol Plus(R) Water-Based Flea Spray April 26, 1996

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 COMPAS Code: 34650030



SAFETY DATA SHEET

Issue Date 15-May-2017

Revision Date 27-Mar-2018

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Vet-Kem Flea, Tick and Bot Spray

Other means of identification

Product Code PRN FP 100527066

EPA Pesticide Registration Number 2724-404-92895

Product Size 16 oz. Bottle

Recommended use of the chemical and restrictions on use

Recommended Use Insect growth regulator.

Uses advised against No information available.

Details of the supplier of the safety data sheet

Manufacturer	Company Name
Wellmark International	PRN Pharmacal
1501 E. Woodfield Road, Suite 200 West	8809 Ely Road
Schaumburg, IL 60173	Pensacola, FL 32514

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2B
Skin Sensitization	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3

Label elements

Emergency Overview

Danger

Hazard statements

May damage fertility or the unborn child. May cause drowsiness or dizziness. Causes eye irritation. May cause an allergic skin reaction.

Flammable liquid and vapor.



Appearance Liquid

Physical State @20°C Liquid

Odor Alcohol

Precautionary Statements - Prevention

- Wash hands thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing should not be allowed out of the workplace
- Use only outdoors or in a well-ventilated area
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting/ and /equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood

Precautionary Statements - Response

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Hazards not otherwise classified (HNOC)**Other Information****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS. Number	Weight %
1-methoxypropan-2-ol	107-98-2	81.2-82
N-Octyl bicycloheptene dicarboximide	113-48-4	0.62
Piperonyl Butoxide	51-03-6	0.46
2-Methoxy-1-propanol	1589-47-5	0.41
S-Methoprene	65733-16-6	0.27
Pyrethrins	8003-34-7	0.2

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES**First aid measures****General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation

If symptoms persist, call a physician.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use. Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition. Avoid heavy hose streams. Containers may explode when heated.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. Use personal protective equipment as required.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing. Keep away from heat. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Incompatible materials Keep away from heat, sparks and open flame. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1-methoxypropan-2-ol 107-98-2	STEL: 100 ppm TWA: 50 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m ³	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³
Pyrethrins 8003-34-7	TWA: 5 mg/m ³	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 5000 mg/m ³ TWA: 5 mg/m ³

NIOSH IDLH *Immediately Dangerous to Life or Health*

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear long-sleeved shirt, long pants, socks and shoes. Chemical resistant gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State @20°C	Liquid	Odor	Alcohol
Appearance	Liquid	Odor threshold	No information available
Color	Pale Yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5.5-7.5	
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	41 °C / 105.8 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		

Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	7.3 pounds/gallon
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Oxidizing properties	No information available

Other Information

Density VALUE No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Keep away from heat, sparks and open flame. Oxidizing agents.

Hazardous Decomposition Products

Carbon dioxide (CO₂). Carbon Monoxide (CO).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation May cause drowsiness or dizziness.

Eye contact Moderately irritating to the eyes.

Skin Contact May cause allergic skin reaction.

Ingestion No data available.

Chemical Name	LD50 Oral VALUE (mg/kg)	LD50 Dermal VALUE	LC50 Inhalation (DUST) VALUE
1-methoxypropan-2-ol 107-98-2	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 7559 ppm (Rat) 6 h
N-Octyl bicycloheptene dicarboximide 113-48-4	= 2800 mg/kg (Rat)	= 470 mg/kg (Rabbit) = 470 mg/kg (Rat)	-
Piperonyl Butoxide 51-03-6	= 6150 mg/kg (Rat) = 4570 mg/kg (Rat)	> 7950 mg/kg (Rat)	-
Pyrethrins 8003-34-7	= 200 mg/kg (Rat)	= 1350 mg/kg (Rat) = 300 mg/kg (Rabbit)	= 3.4 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity Per manufacturer guidance, no component in this product present at 0.1% or greater is listed by IARC, OSHA or NTP as a carcinogen. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Piperonyl Butoxide 51-03-6		Group 3		

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicity Per manufacturer guidance, Methoprene did not produce birth defects or adverse effect on reproduction in animal tests. Pyrethrins did not produce any birth defects or adverse effect on reproductive parameters in tests with rats and rabbits. Piperonyl butoxide sis not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. 2-methoxy-1-propanol has been shown to produce developmental toxicity in animals.

STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target Organ Effects Central nervous system, Eyes, Respiratory system, Skin.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/L

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.

Ecotoxicity

2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-methoxypropan-2-ol 107-98-2		20.8: 96 h Pimephales promelas g/L LC50 static 4600 - 10000: 96 h Leuciscus idus mg/L LC50 static		23300: 48 h Daphnia magna mg/L EC50
Piperonyl Butoxide 51-03-6		NOEC Fathead minnow 0.04 mg/L [Chronic] 96 Hour(s) LC50 Rainbow Trout 1.9 mg/L [Acute] 96 Hour(s) LC50 Sheephead minnow 3.94 mg/L [Acute]		48 Hour(s) LC50 Daphnia magna 0.51 mg/L [Acute] 48 Hour(s) LC50 Mysid shrimp 0.49 mg/L [Acute] NOEC Daphnia magna 0.03 mg/L [Chronic]
S-Methoprene 65733-16-6		96 Hour(s) LC50 Rainbow Trout 0.76mg/L [Acute] 96 Hour(s) LC50 Bluegill >0.37 mg/L [Acute] NOEC Fathead Minnow 0.048 mg/L [Chronic]		NOEC Mysid shrimp 0.014mg/L [Chronic] 48 hour(s) LC50 Daphnia 0.36 mg/L [Acute]
Pyrethrins 8003-34-7		0.054: 96 h Oncorhynchus mykiss mg/L LC50 0.0031 - 0.0038: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.02 - 0.03: 96 h Oncorhynchus mykiss		

		mg/L LC50 static 0.0322 - 0.0472: 96 h Lepomis macrochirus mg/L LC50 static 0.003 - 0.0046: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.074: 96 h Lepomis macrochirus mg/L LC50 0.0425 - 0.121: 96 h Pimephales promelas mg/L LC50 flow-through 0.224 - 0.458: 96 h Pimephales promelas mg/L LC50 static		
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Persistence and degradability

(s)-Methoprene degrades rapidly in sunlight, both in water and on inert surfaces. The pesticide also is metabolized rapidly in soil and does not leach. Thus, it should not persist in soil or contaminate ground water. Pyrethrins have low persistence in the environment due to rapid breakdown in presence of UV light. .

Bioaccumulation

No information available.

Mobility

(s)-Methoprene: 10-14 days, rapidly hydrolyzed in soil. Pyrethrins are relatively immobile in soil. .

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated packaging	Do not reuse container, unless specified by the manufacturer.
US EPA Waste Number	D001

14. TRANSPORT INFORMATION

DOT**Marine pollutant**

This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.

Description

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Bulk Packaging: UN3092 1-Methoxy-2-proanol, 3, PGIII

15. REGULATORY INFORMATION

U.S. EPA Label Information

EPA Pesticide Registration Number 2724-404-92895

Federal Insecticide, Fungicide, Rodenticide Act Regulations

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

CAUTION. Keep out of reach of children.

HAZARDS TO HUMANS - CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or

clothing. May cause dermal sensitization (skin allergy). HAZARDS TO ANIMALS - CAUTION: Consult a veterinarian before using this product on debilitated, aged, pregnant, nursing or animals on medication. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately. Some cats may be sensitive to products containing pyrethrins. Excessive salivation and ear and paw flicking may occur, however, these effects are temporary and not harmful. May cause dermal sensitization (skin allergy).

International Inventories

TSCA	Not Listed
DSL/NDSL	Not Listed
EINECS/ELINCS	Not Listed
ENCS	Not Listed
IECSC	Not Listed
KECL	Not Listed
PICCS	Not Listed
AICS	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1-methoxypropan-2-ol	X	X		X		X	X	X	X	X
N-Octyl bicycloheptene dicarboximide		X		X		X	X		X	X
Piperonyl Butoxide	X	X		X		X	X	X	X	X
2-Methoxy-1-propanol	X	X		X		X	X	X	X	X
S-Methoprene										X
Pyrethrins		X		X			X	X	X	X

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Piperonyl Butoxide - 51-03-6	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Pyrethrins 8003-34-7	1 lb			

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Pyrethrins 8003-34-7	1 lb		RQ 1 lb final RQ RQ 0.454 kg final RQ

US State Regulations**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1-methoxypropan-2-ol 107-98-2	X	X	X
Piperonyl Butoxide 51-03-6	X		
Pyrethrins 8003-34-7	X	X	X

International Regulations**Mexico - Grade** Moderate risk, Grade 2

Chemical Name	Carcinogenicity	Exposure Limits
Pyrethrins		Mexico: TWA 5 mg/m ³ Mexico: STEL 10 mg/m ³

16. OTHER INFORMATION

NFPA	Health hazards 2	Flammability 2	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 2	Physical hazards 0	Personal protection X

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End of Safety Data Sheet