



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Vet-Kem Siphotrol Yard Spray**

Synonyms

- 8410; EPA Reg. No.: 28293-271-2724

Product Description

- Off-white liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Insect control for lawns.

Restrictions on use

- Avoid contact with eyes, skin or clothing. Keep out of reach of children and pets.

Details of the supplier of the safety data sheet

Manufacturer

- Wellmark International
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States

Emergency telephone number

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Manufacturer • 1-888-914-2082

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Specific Target Organ Toxicity Single Exposure 1

Label elements

OSHA HCS 2012

DANGER



Hazard statements • Causes damage to organs - nervous system.

Precautionary statements

Prevention • Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.

Avoid breathing dust, fume, gas, mist, vapors and/or spray.

Response • IF exposed: Call POISON CENTER or doctor/physician.
Specific treatment, see supplemental first aid information.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Store locked up.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Permethrin	CAS:52645-53-1	2.5%
Other ingredients	NDA	97.5%

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CONTROL center or doctor.

Skin

- IF ON SKIN: Wash with plenty of soap and water.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Ingestion

- IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- Causes damage to organs - nervous system. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media** • Use water fog, foam, carbon dioxide, or dry chemical.
- Unsuitable Extinguishing Media** • None known.
Do not use direct water stream.
- Firefighting Procedures** • Do not allow fire fighting water to escape into waterways or sewers.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards** • None known.
- Hazardous Combustion Products** • Carbon and nitrogen oxides.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions** • Avoid contact with skin, eyes, and clothing. Avoid breathing fumes.
- Emergency Procedures** • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

Environmental precautions

- Do NOT water the treated area to the point of runoff. Do not allow runoff into water, storm drains or drainage ditches.

Methods and material for containment and cleaning up

- Containment/Clean-up Measures** • Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
LARGE SPILLS: Dike far ahead of spill for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

- Handling** • Use good safety and industrial hygiene practices. Avoid contact with skin or eyes. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

- Storage** • Keep this product in its tightly closed original container, when not in use. Store in a cool, dry (preferably locked) area that is inaccessible to children and pets. Store locked up.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure controls

- Engineering Measures/Controls** • No data available

Personal Protective Equipment**Pictograms****Respiratory**

- If prolonged exposure is anticipated wear appropriate respiratory protection.

Eye/Face

- Wear chemical splash safety goggles.

Hands

- Wear appropriate gloves.

Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	Off-white liquid.
Color	Off-white	Odor	Mild
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	Typical pH 7.3
Specific Gravity/Relative Density	= 1.008 Water=1	Water Solubility	No data available
Viscosity	Like water		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	< 3 %
VOC (Vol.)	< 3 %		
Flammability			
Flash Point	140 °C(284 °F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Not Flammable.		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity**Reactivity**

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excessive heat.

Incompatible materials

- Store away from oxidizers and strong acids.

Hazardous decomposition products

- Carbon and nitrogen oxides.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Permethrin (2.5%)	52645-53-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 6000 mg/kg; Inhalation-Rat LC50 • 2.3 mg/L; Skin-Rabbit LD50 • >2000 mg/kg

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 1
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure • Inhalation, Skin, Eye, Ingestion.

Potential Health Effects

Inhalation

Acute (Immediate)

- Harmful if inhaled. Permethrin affects nervous system. Symptoms of overexposure to permethrin include diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity.

Chronic (Delayed)

- No data available.

Skin

Acute (Immediate)

- May cause mild irritation.

Chronic (Delayed)

- No data available.

Eye

- Acute (Immediate)**
 - May cause irritation.
- Chronic (Delayed)**
 - No data available.
- Ingestion**
 - Acute (Immediate)**
 - Harmful if ingested. Permethrin affects nervous system. Symptoms of overexposure to permethrin include diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity.
 - Chronic (Delayed)**
 - No data available.
- Mutagenic Effects**
 - Permethrin was not mutagenic in a battery of in vitro and in vivo tests.
- Carcinogenic Effects**
 - Permethrin is not classified as carcinogen by NTP, IARC and OSHA.
- Reproductive Effects**
 - Permethrin does not cause developmental or reproductive effects.

Section 12 - Ecological Information

Toxicity

Components		
Permethrin (2.5%)	52645-53-1	<p>Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Blue gill</i> 0.00079 mg/L [Acute] 96 Hour(s) LC50 <i>Atlantic silverside</i> 0.0022 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.0003 mg/L [Chronic] NOEC <i>Sheepshead minnow</i> 0.00083 mg/L [Chronic]</p> <p>Aquatic Toxicity-Crustacea: NOEC <i>Daphnia magna</i> 0.000039 mg/L [Chronic] NOEC <i>Mysid shrimp</i> 0.000011 mg/L [Chronic] LC50 <i>Hexagenia bilineuta</i> 0.0001 mg/L [Acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.000019 mg/L [Acute]</p>

Persistence and degradability

- Active ingredient: Permethrin has a moderate rate of degradation in soil and half-life is related to soil type, microbial population, concentration in the soil and the aerobic condition of the soil. Permethrin: not rapidly biodegradable.

Bioaccumulative potential

- Permethrin: Bioconcentration factor (BCF) 300; Does not bioaccumulate.

Mobility in Soil

- Active ingredient: Permethrin has a high affinity for organic matter (Koc = 86,000), there is little potential for movement in soil or entry into groundwater. Permethrin: Immobile in soil.

Other adverse effects

- Potential Environmental Effects**
 - This pesticide is extremely toxic to aquatic organisms including fish and invertebrates. Care should be taken to avoid contamination of the aquatic environment.

Section 13 - Disposal Considerations

Waste treatment methods

- Product waste**
 - Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations. Do not allow entry into storm drains, drainage ditches, gutters or surface waters.

Packaging waste

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

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	UN3082	Packaging 5 L or greater: Environmentally Hazardous Substance, Liquid, n.o.s. (Permethrin)	9	III	Marine Pollutant
IATA/ICAO	UN3082	Packaging 5 L or greater: Environmentally Hazardous Substance, Liquid, n.o.s. (Permethrin)	9	III	Acute Aquatic Toxicity

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • SARA Title III Section 313, Chronic

FIFRA – Pesticide Labeling

This material is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • Keep out of reach of children.

Hazards to Humans and Domestic Animals

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION: Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

First Aid

FIRST AID: If on skin or clothing: 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.

Environmental Hazards •

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

United States

Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Permethrin

52645-53-1

1.0 % de minimis
concentration

Section 16 - Other Information

Revision Summary

Revision Date	MSDS Number	Changes
31/October/2016		• Section 14 revised.

Revision Date • 31/October/2016

Last Revision Date • 17/December/2014

Preparation Date • 17/December/2014

Disclaimer/Statement of Liability

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