



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Sergeant's Household Flea and Tick Spray
CAS # Mixture
Product use Household Spray
Manufacturer Sergeant's Pet Care Products, Inc.
 2625 South 158th Plaza
 Omaha, NE 68130-1770 US
 Phone: 1-800-224-7387
 Fax: 1-402-938-7099
 ChemTrec: 1-800-424-9300

LEGEND HMIS	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 1
Flammability	1
Physical Hazard	1
Personal Protection	

2. Hazards Identification

Emergency overview CAUTION
 Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes and clothing.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes May cause temporary irritation, tearing, and blurred vision. Mildly irritating, conjunctival redness clears by 24 hours. (rabbit)

Skin Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth). Harmful if absorbed through the skin. Slight irritation at 72 hours. Primary irritation Index = 1.4.

Inhalation Excessive inhalation may be irritating to the respiratory tract. The Acute Inhalation LC50 of this material places it in EPA Toxic Category IV.

Ingestion Harmful if swallowed.

Target organs Eyes. Skin.

Chronic effects None known.

Signs and symptoms May cause irritation.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Esfenvalerate	66230-04-4	0.025
Composition comments	Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.	

4. First Aid Measures

First aid procedures

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact 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.

Inhalation Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion	Call a poison control center or doctor 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Notes to physician	For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of tocopherol acetate (Vitamin E). Diazepam has been recommended to reduce the CNS effects of Esfenvalerate.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus. Keep nearby containers and equipment cool with a water stream.
Hazardous combustion products	Under fire conditions this product may support combustion and may decompose to give off toxic gases such as HYDROGEN CYANIDE, carbon monoxide, carbon dioxide and nitrogen oxides.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	SMALL SPILL: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent such as sand, or vermiculite. Clean spill area of residues and absorbent. LARGE SPILL: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent.

7. Handling and Storage

Handling	Take prudent precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. Avoid breathing vapors or spray mists of this product. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, food or feedstuffs, by storage, handling or by disposal. Read and observe all precautions and instructions on the label.
Storage	Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. DO NOT allow product to exceed 160°F (71.1°C) as HYDROGEN CYANIDE GAS may be produced. Keep away from strong acids, bases and oxidizers. Emptied container may retain product residues.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
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Esfenvalerate	ACGIH-TLV, OSHA-PEL Not established Supplier OEL 2 mg/m3
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Engineering controls	Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.
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Personal protective equipment

Eye / face protection	Take prudent precautions to avoid contact with eyes.
Hand protection	Take prudent precautions to avoid contact with skin and clothing.
Skin and body protection	As required by employer code.
Respiratory protection	Wearing a respirator is not normally required when handling this product. Use in well ventilated areas. Take prudent precautions to avoid breathing vapors and/or spray mists of this product.
General hygiene considerations	DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA! Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

9. Physical & Chemical Properties

Appearance	Liquid.
Color	1.0 on Gardner Scale
Form	Not available
Odor	Slight sweet
Odor threshold	Not available
Physical state	Liquid
pH	6.4 @ 10% in water
Freezing point	Not determined
Boiling point	Not determined
Flash point	> 93.3 °C (> 199.94 °F) Tag Closed Cup
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Heavier than air
Specific gravity	0.999 (Water=1) at 20°C (68°F)
Octanol/water coefficient	Not available
Solubility (H2O)	Miscible
Auto-ignition temperature	Not available
VOC (Weight %)	<1.000%
Pour point	Not available
Viscosity	6CPS at 22.6°C (72.7°F) Brookfield
Percent volatile	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong bases. Strong acids. Strong oxidizing agents.
Hazardous decomposition products	HYDROGEN CYANIDE GAS may be formed by thermal decomposition at 160°F (71.1°C) or higher, or by contact with alkaline substances such as soda ash & lye.
Possibility of hazardous reactions	None known.

11. Toxicological Information

Some of all of the toxicity data reported was bridged from a substantially similar formula.

Acute LD50: >1500 mg/kg, Albino Rat, Oral

Acute LD50: >2000 mg/kg, Albino Rabbit, Dermal

Component analysis - LC50

Ingredient(s)	LC50
Esfenvalerate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Esfenvalerate	325 mg/kg rat

Effects of acute exposure

Eye	May cause temporary irritation, tearing, and blurred vision. Mildly irritating, conjunctival redness clears by 24 hours. (rabbit)
Skin	Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth). Harmful if absorbed through the skin. Slight irritation at 72 hours. Primary irritation Index = 1.4.
Inhalation	Excessive inhalation may be irritating to the respiratory tract. The Acute Inhalation LC50 of this material places it in EPA Toxic Category IV.
Ingestion	Harmful if swallowed.
Sensitization	When applied dermally to albino guinea pigs, this product does not appear to be a dermal sensitizer.
Chronic effects	Non-hazardous by OSHA criteria.
Carcinogenicity	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.
Mutagenicity	Non-hazardous by OSHA criteria.
Reproductive effects	Non-hazardous by OSHA criteria.
Teratogenicity	Non-hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity	This pesticide is extremely toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters, unless in accordance with the requirement of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.
Environmental effects	Environmental data not available for this product.
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	IF EMPTY: Do not reuse this container. Place in trash or offer for recycling if available. IF PARTLY FILLED: Call your local solid waste agency or 1-800-CLEAN-UP for disposal instructions. Never place unused product down any indoor or outdoor drain. RCRA/EPA WASTE INFORMATION: None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40 CFR 251.33) or CERCLA Hazardous Substance list (40CFR Part 302 Table 302.4).
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Department of Transportation (DOT)

Proper Shipping Name: Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

Primary Hazard Class/Division: Non-Hazardous

Other Shipping Information: This material is not regulated by the DOT as a hazardous material when shipping in Non-Bulk Quantities.

IATA

Proper Shipping Name: Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

Primary Hazard Class/Division: Non-Hazardous

IMDG

Proper Shipping Name: Not available.

15. Regulatory Information

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
EPA registration number 1021-1779-2517

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical No

CERCLA (Superfund) reportable quantity

This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40CFR 355).

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

Safe Drinking Water Act (SDWA) Not available

Drug Enforcement Agency (DEA) Not available

Food and Drug Administration (FDA) Not available

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
VOLATILE ORGANIC COMPOUNDS (VOC): This product contains less than 1% VOC's.

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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