

1. Product and Company Identification

Product Name Sergeant's Green brand Natural Flea & Tick Spray for Cats & Kittens
CAS # Mixture
Product use Kills and repels fleas, ticks & mosquitos
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
 Emergency Phone: 1-800-781-4738
 1-800-424-9300

CHEMTREC

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

Health	* 2
Flammability	3
Physical Hazard	0
Personal Protection	B

2. Hazards Identification

Emergency overview CAUTION
 Flammable liquid - may release vapors that form flammable mixtures at or above the flash point. Containers may explode when heated.
 May cause sensitization by skin contact.
 Avoid contact with eyes. Avoid breathing mists or vapors. Wash thoroughly with soap and water after handling.
 Do not use on (or cause exposure to) puppies under 12 weeks of age.

Potential short term health effects

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

Eyes Causes irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. May be absorbed through the skin.

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
2-Propanol	67-63-0	20 - 40
Oils of cinnamon	8007-80-5	1 - 2.5
Oils, clove	8000-34-8	1 - 2.5
Oils, lemongrass	8007-02-1	1 - 2.5
Oils, thyme	8007-46-3	1 - 2.5
Oils, peppermint	8006-90-4	0.1 - 1

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	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
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	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

Notes to physician

Symptoms may be delayed.

General advice

Keep away from sources of ignition. No smoking. 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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Flammable by OSHA criteria. Vapors may travel to a source of ignition and flash back. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Carbon dioxide. Alcohol foam. 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.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
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	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
2-Propanol	ACGIH-TLV TWA: 200 ppm STEL: 400 ppm OSHA-PEL TWA: 400 ppm
Oils of cinnamon	ACGIH-TLV Not established OSHA-PEL Not established
Oils, clove	ACGIH-TLV Not established OSHA-PEL Not established
Oils, lemongrass	ACGIH-TLV Mist: 5 mg/m ³ OSHA-PEL Not established
Oils, peppermint	ACGIH-TLV Not established OSHA-PEL Not established
Oils, thyme	ACGIH-TLV Not established OSHA-PEL Not established

Engineering controls

Use only under good ventilation conditions or with respiratory protection.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Clear.
Color	Colorless
Form	Liquid
Odor	Citrus. / minty
Odor threshold	Not available
Physical state	Liquid
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	21.11 °C (70 °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	Not available
Specific gravity	0.84 (@70°F)
Octanol/water coefficient	Not available
Solubility (H2O)	Negligible
Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers. Caustics.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
2-Propanol	16970 mg/l/4h rat
Oils of cinnamon	Not available
Oils, clove	Not available
Oils, lemongrass	Not available
Oils, peppermint	Not available
Oils, thyme	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
2-Propanol	4396 mg/kg rat
Oils of cinnamon	2800 mg/kg rat
Oils, clove	2650 mg/kg rat
Oils, lemongrass	> 5000 mg/kg rat
Oils, peppermint	2426 mg/kg rat
Oils, thyme	2840 mg/kg rat

Effects of acute exposure

Eye	Causes irritation.
Skin	Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. May be absorbed through the skin.
Inhalation	Harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	Contains potential skin sensitizers.
Chronic effects	Non-hazardous by OSHA criteria.

Carcinogenicity Non-hazardous by OSHA criteria.

ACGIH - Threshold Limits Values - Carcinogens

2-Propanol 67-63-0 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 3 (Not Classifiable)

2-Propanol 67-63-0 Monograph 71 [1999], Supplement 7 [1987], Monograph 15 [1977]

Mutagenicity Non-hazardous by OSHA criteria.

Reproductive effects Non-hazardous by OSHA criteria.

Teratogenicity Non-hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae Data

2-Propanol 67-63-0 96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L

Ecotoxicity - Freshwater Fish Species Data

2-Propanol 67-63-0 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)

Ecotoxicity - Microtox Data

2-Propanol 67-63-0 5 Min EC50 Photobacterium phosphoreum: 35390 mg/L

Ecotoxicity - Water Flea Data

2-Propanol 67-63-0 48 Hr EC50 Daphnia magna: 13299 mg/L

Environmental effects Not available

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 Review federal, provincial, and local government requirements prior to disposal.

Waste from residues / unused products Not available

Contaminated packaging Not available

14. Transport Information

Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name Flammable liquids, n.o.s. (2-PROPANOL)

Hazard class 3

UN number UN1993

Packing group II

Additional information:

Special provisions IB2, T7, TP1, TP8, TP28

Packaging exceptions 150

ERG number 128



15. Regulatory Information

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Sergeant's Pet Care Products, Inc. represents that this product qualifies for exemption from registration under the Federal Insecticide Fungicide, and Rodenticide Act (FIFRA). This product has not been registered by the United States Environmental Protection Agency. (EPA Exemption number 25B-36)
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

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

2-Propanol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
------------	---------	--

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

Section 302 extremely hazardous substance No

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.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

2-Propanol	67-63-0	Present
------------	---------	---------

U.S. - Massachusetts - Right To Know List

2-Propanol	67-63-0	Present
------------	---------	---------

U.S. - Minnesota - Hazardous Substance List

2-Propanol	67-63-0	Present
------------	---------	---------

U.S. - New Jersey - Right to Know Hazardous Substance List

2-Propanol	67-63-0	sn 1076; sn 2381 (strong-acid process manufacture)
------------	---------	--

U.S. - Pennsylvania - RTK (Right to Know) List

2-Propanol	67-63-0	Environmental hazard
------------	---------	----------------------

U.S. - Rhode Island - Hazardous Substance List

2-Propanol	67-63-0	Toxic; Flammable
------------	---------	------------------

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.

Issue date

11-Sept-2009

Effective date

11-Sept-2009

Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021