



## MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TRANSCANADA HWY,  
BAIE D'URFÉ, QUEBEC, H9X 0A2  
CANADA

<b>Sergeant's</b>
<b>Protect Household Flea Spray</b>
<b>70106</b>

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Section I. Product identification and uses	
Product name	<b>Flea &amp; Tick Spray for Dogs</b>
P.C.P. Registration #	26502
Use	Insecticide
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency	Call your local Poison Control Centre.

Section II. Composition and information on ingredients				
Ingredients	Conc. (%)	CAS #	LD50	LC50
Nylar	<0.1	95737-68-1	N/A	N/A
Tetremethrin	0.1 to 1.5	7696-12-0	>5000mg/kg ingestion-rat	N/A
Sumithrin	0.1 to 1.5	26002-80-2	N/A	N/A
Paraffinic Solvent Naphthenis	5 to 10	64742-47-8	>5000mg/kg ingestion-rat Exposure limit=100ppm	6.8mg/L
Isobutane	10 to 30	75-28-5	Exposure limit=1000ppm	142500 ppm (4h) inhala- rat
Propane	1 to 5	74-98-6	Exposure limit=1000ppm	N/A

Section III. Hazardous ingredients		
WHMIS	Classification	Transport of dangerous goods
Not regulated	Not applicable	T.D.G. Classification : Consumer commodity (aerosols, UN1950, class 2.1) D.O.T. Classification: Consumer commodity ORM-D.

Section IV. Physical data	
Physical state and appearance/Odour	Aerosol, clear amber liquid.
pH	6-7
Percent volatile	99
Freezing point	Not available
Boiling point	100-269°C
Specific gravity	0.96-0.99 (liquid), 0.83-0.87 (aerosol)
Vapour density	Greater than 1.

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Odour threshold	Not available
Vapour pressure	50-60 psig
Evaporation rate	Less than 1.
Solubility	Negligible
VOC (%)	22-23

<b>Section V. Fire or explosion risk</b>
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Flammability conditions
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Excessive heat, sparks and flame
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Means of extinction
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Water, carbon dioxide, dry chemical, foam.
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Procedures in case of a fire
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Water from fogging nozzles may be used to cool closed containers to prevent build-up if exposed to extreme temperatures. Full protective equipment including self contained breathing apparatus should be worn in a fire involving this material.
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Hazardous combustion materials
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Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete.
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Flash point	Flammability threshold		Temp auto-ignition
64°C (tag close-up, concentrate)	Minimal	Maximal	310°C
	0.7%	9.5%	

<b>Section VI. Reactivity data</b>
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Instability conditions	Stable, under normal conditions.
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Incompatible products	Strong oxidizing agents.
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Reactivity conditions	Not applicable
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Hazardous decomposition products	Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete.
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<b>Section VII. Toxicological properties</b>
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<b>Routes of entry</b>	Ingestion and inhalation. Eye and skin contact.
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Effects of acute	Dizziness, nausea. Irritation to skin and eyes.
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Eye	May cause irritation
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Skin	May cause irritation
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Inhalation	May cause irritation. Propellant is a simple asphyxiant.
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Ingestion	May cause headache, nausea, vomiting and weakness.
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Effects of chronic overexposure Solvent may cause defatting dermatitis.

### Section VIII. First aid

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes holding lids apart to ensure flushing of entire surface. Get medical attention.
Skin contact	Immediately flush skin with plenty of water and thoroughly wash with soap and water. If irritation persists, seek medical attention.
Inhalation	Remove patient to fresh air. Obtain medical advice if symptoms persist.
Ingestion	Do not induce vomiting. Obtain medical attention.

### Section IX. Accidental release measures

Person-related safety precautions	Wear chemical resistant glove.
Measures for environmental protection	Prevent from entering a watercourse.
Measures for cleaning/collecting	Remove all sources of ignition. Use an inert absorbent material and non-sparking tools. Ventilate area.

### Section X. Handling and storage

Keep away from heat, sparks and open flame. Store in a cool, well ventilated area not to exceed 50°C.

### Section XI. Exposure controls and personal protection

Protective clothing	Chemical resistant gloves, safety glass. If used indoors on a continual basis, use of a cartridge type respirator (NIOSH/MASHAT 23C or equivalent) is recommended.
Engineering controls	Local exhaust or ventilation is recommended.

### Section XII. Disposal considerations

Product recommendation	Do not puncture or incinerate containers, even when empty. Dispose of empty container in household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.
Unclean packaging recommendation	According to local, provincial, federal regulations.

### Section XIII. Ecological information

Not available



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<b>Section XIV. Other information</b>
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To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated. Do not breathe vapour. Avoid all contact with the product. Avoid prolonged or repeated exposure. Manipulate in a well ventilated area or under an adequate fume hood.
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Prepared by Rolf C. Hagen Inc. (514) 457-0914
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Validated April 30 <sup>th</sup> , 2012
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