



MATERIAL SAFETY DATA SHEET

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

Flea & Tick Spray for Dogs
Sergeant's
70102

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Section I. Product identification and uses	
Product name	Flea & Tick Spray for Dogs
CAS #	N/A
Use	Insecticide
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency	Call your local Poison Control Center

Section II. Composition and information on ingredients					
Ingredients	Conc. (%)	CAS #	Exposure limit	LD50	LC50
Permethrins	0.05%	52645-53-1	N/A	>2500 mg/kg oral-rat	N/A
Pyrethrins	0.056%	8003-34-7	5 mg/m3	1680 mg/kg oral-rat	N/A
Isobutane	7-13%	75-28-5	1000 ppm	N/A	142,500 ppm (4h) inhalation-rat

Section III. Hazardous ingredients		
WHMIS	Classification	Transport of dangerous goods
Not controlled	N/A	Not controlled

Section IV. Physical data	
Physical state and appearance/Odour	Aerosol, Water emulsion
pH	6-7
Percent volatile	98-99
Freezing point	Not available
Boiling point	100°C



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Specific gravity	0.98-1.02
Vapour density	Greater than 1
Vapour pressure	40-50 psig
Evaporation rate	Less than 1
Odour threshold	Not available
Solubility	Soluble

Section V. Fire or explosion risk			
Flammability conditions			
Excessive heat, sparks and open flame			
Means of extinction			
Water, carbon dioxide, dry chemical, foam			
Procedures in case of a fire			
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.			
Hazardous combustion materials			
Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete			
Flash point	Flammable limit (% by volume)		Temp auto-ignition
Not available	Minimal	Maximal	N/A
	1	9.5	

Section VI. Reactivity data	
Instability conditions	Not applicable
Incompatible products	Strong oxidizing agents
Reactivity conditions	Not applicable
Hazardous decomposition products	Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete



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Section VII. Toxicological properties	
Routes of entry	
Effects of acute	Dizziness, nausea. Irritation to skin and eyes
Eye	May cause irritation
Skin	May cause irritation
Inhalation	May cause irritation. Propellant is a simple asphyxiant.
Ingestion	May cause headache, nausea, vomiting and weakness
Effects of chronic overexposure	Solvents may cause defatting dermatitis.

Section VIII. First aid	
Eye contact	Flush immediately with plenty of water for at least 15 minutes and get medical attention
Skin contact	Wash thoroughly with soap and water
Inhalation	Remove to fresh air
Ingestion	Do not induce vomiting. Get medical attention

Section IX. Accidental release measures	
Person-related safety precautions	
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.



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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	Safety glasses
Engineering controls	Ventilation- Local

Section XII. Disposal considerations	
Product recommendation	Do not puncture or incinerate containers, even when empty. Dispose of in accordance with Local, Provincial or Federal government regulations.
Uncleaned packaging recommendation	Since emptied container retains product residue, all labeled hazard precautions must be observed.

Section XIII. Ecological information
Not available

Section XIV. Transportation information
T.D.G. Classification : Consumer commodity (aerosols, UN1950, class 2.1) D.O.T. Classification: Consumer commodity ORM-D.

Prepared by Rolf C. Hagen Inc. (514) 457-0914	Validated: April 30, 2009
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