



MATERIAL SAFETY DATA SHEET

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

Sergeant's
Flea & Tick Spray for Dogs
70102

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Section I. Product identification and uses	
Product name	Flea & Tick Spray for Dogs
P.C.P. Registration #	21629
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 #	EINECS #	LD50	LC50
Permethrins	<0.1	52645-53-1	N/A	>2500mg/kg oral-rat	N/A
Pyrethrins	<0.1	8003-34-7	N/A	1680mg/kg oral-rat Exposure limit=5mg/m ³	N/A
Isobutane	7 to 13	75-28-5	N/A	Exposure limit=1000ppm	142500ppm (4h) inhalat.-rat

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, water emulsion.
pH	6-7
Percent volatile	98-99
Freezing point	Not applicable
Boiling point	100°C
Specific gravity	0.98-1.02
Vapour density	Greater than 1.
Odour threshold	Not available
Vapour pressure	Not available
Evaporation rate	Less than 1.
Solubility	Soluble.

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Section V. Fire or explosion risk			
Flammability conditions			
Excessive heat, sparks and 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	Flammability threshold		Temp auto-ignition
Not available	Minimal	Maximal	Not available
	2.6%	9.5%	

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

Section VII. Toxicological properties	
Routes of entry	Ingestion and inhalation. Eye and skin contact.
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	Solvent may cause defatting dermatitis.



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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	Safety glass.
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	
The ecological characteristic of this product have not been fully investigated. The product should not be allowed to enter drains, or water course, or be deposited where it can affect ground or surface	



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waters.

Section XIV. Other information

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.

Prepared by Rolf C. Hagen Inc.
(514) 457-0914

Validated April 30th, 2012

While the company believes the data set forth herein are accurate as the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration and verification.