



MATERIAL SAFETY DATA SHEET

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

Flea Killer Pump Spray for Dogs

D-80

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Section I. Product identification and uses

Product name	Flea Killer Pump Spray for Dogs
CAS #	Mix
Use	Kills fleas & ticks. Aids in repelling biting flies, gnats and mosquitoes.
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
Isopropyl alcohol	79.80-80.20	67-63-0	200-661-7	4,420 mg/kg – rat (oral) 13,000 mg/kg – rabbit (oral)	16,970 ppm – inhal (4h) rat
Pyrethrins	0.068-0.083	8003-34-7	232-319-8	N/A	N/A
Piperonyl Butoxide	0.12-0.18	51-03-6	200-076-7	N/A	N/A
N-Octyl Bicycloheptene Dicarboximide	0.22-0.28	113-48-4	204-029-1	N/A	N/A
Permethrin	0.049-0.060	52345-33-1	N/A	N/A	N/A

Section III. Hazardous ingredients

WHMIS	Classification	Transport of dangerous goods
B2: Flammable Liquid	3	# NA: 1219

Section IV. Physical data

Physical state and appearance/Odour	Clear liquid / Characteristic odour
pH	N/A
Percent volatile	



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Freezing point	-89°C
Boiling point	82°C
Specific gravity	0.8300-0.8500
Vapour density	
Odour threshold	40-200 ppm
Vapour pressure	4.40 kPa @ 20°C
Evaporation rate	2.3
Solubility	Water

Section V. Fire or explosion risk			
Flammability conditions			
Avoid contact with ignition sources since product is flammable.			
Means of extinction			
Small fires: Use carbon dioxide or dry chemical. Large fires: Apply alcohol-type foam or water spray.			
Procedures in case of a fire			
Use water spray to cool fire-exposed containers and structures and to disperse vapours; re-ignition is possible. Evacuate enclosed and surrounding areas. If fumes and smoke can not be avoided, use adequate suit and breathing apparatus.			
Hazardous combustion materials			
Burning can produce carbon monoxide and/or carbon dioxide.			
Flash point	Flammability threshold		Temp auto-ignition
12°C	Minimal	Maximal	> 399°C
	2.5%	12.0%	



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Section VI. Reactivity data

Instability conditions	This product is stable in non-emergency conditions
Incompatible products	Oxidising materials
Reactivity conditions	Source of ignition
Hazardous decomposition products	Burning can produce carbon monoxide and/or carbon dioxide.

Section VII. Toxicological properties

Routes of entry

Effects of acute

Eye May cause irritation

Skin May cause irritation

Inhalation May cause irritation of the respiratory tract

Ingestion May cause adverse health effects

Effects of chronic overexposure None

Section VIII. First aid

Eye contact Immediately flush eyes with running water for a minimum of 20 minutes while holding eyelids open. If irritation persists then call a physician immediately.

Skin contact Wash with mild soap and water. Consult a physician if irritation develops.

Inhalation Remove to fresh air. Consult a physician should any irritation occur.



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Ingestion	Do not induce vomiting. Give plenty of water or milk to dilute. Call a physician.
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Section IX. Accidental release measures

Person-related safety precautions	Wear adequate personal protective clothing and equipment.
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Measures for environmental protection	Rinse well with water
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Measures for cleaning/collecting	Eliminate with water
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Section X. Handling and storage

Store in a cool and dry location with good ventilation.

Section XI. Exposure controls and personal protection

Protective clothing	The usual precautionary measures are to be adhered to when handling chemicals. Wear chemical safety goggles.
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Engineering controls	
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Section XII. Disposal considerations

Product recommendation	Dispose of in an approved landfill in accordance with federal, state/provincial and local regulations.
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Uncleaned packaging recommendation	Since emptied container retains product residue, all labelled hazard precautions must be observed.
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Section XIII. Ecological information

N/A

Section XIV. Transportation information



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Land transport (ADR-RID): Consumer commodity ORM-D. Refer to current regulations for exact requirements.

Maritime transport (IMDG): Shipped as limited quantities. Refer to current regulations for exact requirements.

Air transport (ICAO-TI & IATA-DGR) t: Consumer commodity ORM-D AIR or Alcohols N.O.S. Refer to current regulations for exact requirements.

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

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