




# MATERIAL SAFETY DATA SHEET

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

<b>Sergeant's</b>
<b>Flea &amp; Ticks Collar for Cat</b>
<b>50142</b>

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Section I. Product and Company Identification	
Product name	Sergeant's Flea and Ticks Collar for Cat and Kittens
CAS #	Mixture
Use	Flea and tick control on cats
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
PMRA registration#	27667
Emergency	Call your local poison control center

Section II. Hazards Identification	
WHMIS	Classification
	D-2A (Material causing other toxic effects)

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Propoxur	2.5-10	114-26-1	204-043-8
Stearic acid	0.1-1	57-11-4	200-313-4
Titanium oxide	0.1-1	13463-67-7	236-675-6
Diisobutyle adipate	<0.1	141-04-8	205-450-3

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water for a minimum of 15 minutes holding lids apart to ensure flushing of the entire surface. Remove contact lenses, if present, after the 5 first minutes.  Seek medical attention if irritation persists.
Skin contact	Remove the contaminated clothes and flush skin with plenty of water and soap.  In case of reaction seek immediate medical attention.
Inhalation	If inhaled, remove patient to fresh air. If symptom persists, obtain medical attention.
Ingestion	Do not induce vomiting unless told so by the poison control center or physician. Rinse mouth with water. Never administrated any liquids to an unconscious or convulsing person.  Seek immediate medical attention.

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Section V. Fire Fighting Measures	
Suitable extinguishing media	
Use extinguishing media appropriate to surrounding fire conditions: dry chemical, CO2, water spray or regular foam.	
Specific hazards arising from the chemical	
Thermal degradation products may include and are not limited to: carbon oxides, nitrogen oxide and hydrogen chloride, hydrogen cyanide, methylisocyanate and other toxic fumes.	
Special protective actions for fire-fighters	
Wear adequate personal protection to prevent contact with material or its combustion products. Self-contained breathing apparatus with a full-face piece operated in a pressure demand or other positive pressure mode.	

Section VI. Accidental Release Measures	
Person-related safety precautions	Rubber or plastic gloves. Full face-shield or chemical splash goggles or face mask. Protective clothing, apron, rubber boots.
Measures for environmental protection	DO NOT empty into drain. Prevent entry into waterways, sewers, basements or confined area.
Measures for cleaning/collecting	Isolate and contain spill. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use dry methods to collect spilled material. Avoid generating dust. Place collected material in a suitable container for reclamation or disposal.

Section VII. Handling and Storage	
Good handling and housekeeping practices should be followed to minimize spills, generation of airborne dusts, and accumulation of dusts on exposed surfaces. Adequate ventilation is recommended to draw dust away from worker's breathing zones. Take measure to prevent the build up of electrostatic charge. Keep product away from incompatible material. Keep container closed and in upper position. Store in cool, dry, well-ventilated area.	

Section VIII. Exposure Controls and Personal Protection	
Protective clothing	Rubber or plastic gloves. Full face-shield or chemical splash goggles or face mask and appropriated respirators mask. Protective clothing, apron, rubber boots.
Engineering controls	General ventilation is recommended.

Section IX. Physical and Chemical Properties	
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Appearance (physical state, color, etc.) / Odor	Solid white collar / baby powder fragrance
Odor threshold	Data not available
pH	Data not available
Melting point / Freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	> 87.7 °C
Evaporation rate	Data not available
Flammability (solid, gas)	Data not available
Upper / Lower flammability	Data not available
Vapor pressure	Data not available
Vapor density	Data not available
Bulk density	Data not available
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Not applicable

<b>Section X. Stability and Reactivity</b>	
Instability conditions	This product is stable under normal conditions.
Conditions to avoid	Avoid heat, open flame, sources of ignition.
Materials to avoid	Strong oxidizers, (ozone, liquid oxygen, chlorine, permanganate). Strong acids. Caustics agents.
Hazardous decomposition products	May include and are not limited to: oxides of carbon, oxides of nitrogen, hydrogen chloride. Toxic fumes.
Hazardous polymerization	Does not polymerize.

<b>Section XI. Toxicological Information</b>	
<b>Route of exposure</b>	<b>Conclusion / Remarks</b>
<b>Skin corrosion/irritation</b>	May cause irritation. Propoxur (CAS 114-26-1) Acute Dermal Toxicity LD <sub>50</sub> Rat: > 5,000 mg/kg
<b>Serious eye damage/irritation</b>	May cause irritation.
<b>Respiratory or skin sensitization</b>	Dust of this product may cause irritation of the nose, throat, and

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	respiratory tract. Propoxur (CAS 114-26-1) Acute Inhalation toxicity LC <sub>50</sub> Rat: 0.654 mg/L, 4h
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting. Propoxur (CAS 114-26-1) Acute oral toxicity LD <sub>50</sub> Rat: 50 mg/kg
<b>Germ cell mutagenicity</b>	Data not available
<b>Carcinogenicity</b>	Propoxur (CAS 114-26-1): ACGIH classified as confirmed animal carcinogen with unknown relevance to humans is unknown (group A3).  Titanium dioxide (CAS 13463-67-7): IARC classified as possibly carcinogenic to humans (Group 2B). ACGIH classified as not classifiable as a human carcinogen; (Group A4).
<b>Reproductive toxicity</b>	Data not available
<b>STOT-single exposure</b>	Data not available
<b>STOT-repeated exposure</b>	Data not available
<b>Aspiration hazard</b>	Data not available
<b>Acute toxicity</b>	May cause irritation to the eyes and skin. <b>Note to physician:</b> symptoms may be delayed. Dust released by this collar is a cholinesterase inhibitor. Atropine is antidotal
<b>Chronic Overexposure</b>	Data not available.

Section XII. Ecological Information	
<b>Ecotoxicity</b>	Propoxur (CAS 114-26-1) Fresh water algae 96H IC <sub>50</sub> <i>Scenedesmus subspicatus</i> : 13.4 mg/L Fresh water Fish 96H LC <sub>50</sub> <i>Pimephales promelas</i> : 8.8 mg/L (flow through) 96H LC <sub>50</sub> <i>Oncorhynchus mykiss</i> : 13.6 mg/L 96H LC <sub>50</sub> <i>Leuciscus idus</i> : 12.4 mg/L 96H LC <sub>50</sub> <i>Lepomis macrochirus</i> : 6.6 mg/L Water Flea 48H EC <sub>50</sub> <i>Daphnia magna</i> 0.15 mg/L
<b>Mobility</b>	Data not available
<b>Persistence and Degradability</b>	Propoxur (CAS 114-26-1) 3.6 % (28 days, OECD TG 301F), not readily biodegradable.
<b>Bioaccumulation potential</b>	Data not available



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Section XIII. Disposal Considerations	
Disposal recommendations	This product is a pesticide and should be disposed of at local Hazardous productions collection points. Dispose of in an approved landfill in accordance with federal, provincial and local regulations.
Regulatory disposal information	Data not available

Section XIV. Transport Information
Keep separated from foodstuff.

Section XV. Regulatory Information
Propoxur (CAS 114-26-1) AGW and MAK 2 mg/m <sup>3</sup> CLV: 8 Titanium Dioxide (CAS 13463-67-7) PEL: 15 mg/m <sup>3</sup> , 8H TWA TLV: 10 mg/m <sup>3</sup> , 8H TWA 4a AEL : 10 mg/m <sup>3</sup> , 8H TWA

Section XVI. Other Information
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.

Prepared by Rolf C. Hagen Inc. (514) 457-0914	Validated: July 31 <sup>st</sup> , 2014
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