

ROLF C. HAGEN INC., 20500 TRANSCANDA HWY,  
BAIE D'URFÉ, QUEBEC, H9X 0A2  
CANADA**Sentry Flea & Tick Squeeze-On****for Cats and Kittens**

50363

Page 1 of 9

**Section I. Product and Company Identification**

Product name	Sentry Flea & Tick Squeeze-On for Cats and Kittens
CAS #	Mixture
P.C.P. ACT REG. #	31608
Use	Domestic 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. Hazards Identification****OSHA/HCS status:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**GHS Classification of the substance or mixture:**

Flammable Liquids, Category 3

Serious Eye Damage/Eye Irritation, Category 1

Specific Target Organ Toxicity (Single Exposure) (Respiratory Tract Irritation), Category 3

Aquatic Hazard (Acute), Category 2

Aquatic Hazard (Long Term), Category 2

**GHS label elements****Hazard pictograms:****Signal word:** Danger**Hazard statements:**

Flammable liquid and vapor.

Causes serious eye damage.

May cause respiratory irritation.

Toxic to aquatic life with long lasting effects.

**Precautionary statements****General:** Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.**Prevention:** Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion proof electrical, ventilating, lighting and all material-handling equipment. Use only nonsparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling.



# MATERIAL SAFETY DATA SHEET

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

<b>Sentry Flea &amp; Tick Squeeze-On</b>
<b>for Cats and Kittens</b>
50363

**Response:** Collect spillage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified:** None known.

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Ethyl lactate	60-100	97-64-3	202-598-0
Pyriproxyfen	1-5	95737-68-1	Not applicable

Section IV. First Aid Measures	
Eye contact	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. If present, remove contact lenses and continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
Skin contact	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Ingestion	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. If present, remove dentures. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit



# MATERIAL SAFETY DATA SHEET

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

<b>Sentry Flea &amp; Tick Squeeze-On</b>
<b>for Cats and Kittens</b>
50363

Page 3 of 9

does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

<b>Section V. Fire Fighting Measures</b>	
Suitable extinguishing media	
Dry chemical, carbon dioxide, water spray (fog) or foam. Do not use water jet or water-based fire extinguishers.	
Specific hazards arising from the chemical	
Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Firewater contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Decomposition products may include the following materials: carbon dioxide, carbon monoxide, and nitrogen oxides.	
Special protective actions for fire-fighters	
Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

<b>Section VI. Accidental Release Measures</b>	
Person-related safety precautions	For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Measures for environmental protection	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Measures for cleaning/collecting	Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a



# MATERIAL SAFETY DATA SHEET

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

<b>Sentry Flea &amp; Tick Squeeze-On</b>
<b>for Cats and Kittens</b>
50363

licensed waste disposal contractor.  
Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, watercourses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

<b>Section VII. Handling and Storage</b>	
Protective measures	
Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.	
Advice on general occupational hygiene for safe storage, including any incompatibilities	
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.	
Conditions for safe storage, including any incompatibilities	
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.	

<b>Section VIII. Exposure Controls and Personal Protection</b>	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

<b>Sentry Flea &amp; Tick Squeeze-On</b>
<b>for Cats and Kittens</b>
50363

Protective clothing	<p><b>Eye/face protection</b> Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.</p> <p><b>Hand protection:</b> Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material might be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.</p> <p><b>Body protection:</b> Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.</p> <p><b>Other skin protection:</b> Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</p> <p><b>Respiratory protection:</b> Use a properly fitted; air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.</p>
Engineering controls	<p>Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.</p> <p>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.</p>

<b>Section IX. Physical and Chemical Properties</b>	
Appearance (physical state, color, etc.) / Odor	Clear, pale yellow liquid with characteristic odor
Odor threshold	Data not available
pH	3.65
Melting point / Freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	Closed cup: 54 °C [Pensky-Martens]

<b>Sentry Flea &amp; Tick Squeeze-On</b>
<b>for Cats and Kittens</b>
50363

Evaporation rate	Data not available
Flammability (solid, gas)	Data not available
Upper / Lower flammability limits	Data not available
Specific gravity	1.00 to 1.04 g/ml
Vapor pressure	Data not available
Vapor density	Data not available
% Volatile	Data not available
% VOC content (w/w)	97.7
Solubility	Partially soluble in cold and hot water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Dynamic (RT): 2.947 mPa's (2.947 cP) Kinematic (40 °C): 0.02004 cm <sup>2</sup> /s (2.004 cSt)

<b>Section X. Stability and Reactivity</b>	
Instability conditions	Stable under recommended storage conditions.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Materials to avoid	Oxidizing materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	Does not occur under recommended storage conditions and use.

<b>Section XI. Toxicological Information</b>	
<b>Route of exposure</b>	<b>Conclusion / Remarks</b>
<b>Skin</b>	No known significant effects or critical hazards. Adverse symptoms may include pain or irritation, redness and blistering.
<b>Eye</b>	May cause serious eye damage. Adverse symptoms may include pain, watering and redness.
<b>Inhalation</b>	May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Adverse symptoms may include respiratory tract irritation and coughing.
<b>Ingestion</b>	May cause burns to mouth, throat and stomach. Adverse symptoms may include stomach pains.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.

<b>Sentry Flea &amp; Tick Squeeze-On</b>
<b>for Cats and Kittens</b>
50363



<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>STOT-single exposure</b>	<b>Ethyl lactate 97-64-3</b> Category: 3 Route of exposure: Not applicable. Target organs: Respiratory tract irritation
<b>STOT-repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	No data available
<b>Acute toxicity</b>	LD <sub>50</sub> Dermal Rat >5,000 mg/kg LD <sub>50</sub> Oral Rat >5,000 mg/kg <b>Component analysis</b> <b>Pyriproxyfen 95737-68-1</b> LD <sub>50</sub> Dermal Rat >2,000 mg/kg LD <sub>50</sub> Oral Rat >5,000 mg/kg <b>Ethyl lactate 97-64-3</b> LD <sub>50</sub> Dermal Rabbit >5 g/kg LD <sub>50</sub> Dermal Rat >5,000 mg/kg
<b>Chronic Effects</b>	No known significant effects or critical hazards.
<b>Irritation/Corrosion</b>	No data available
<b>Sensitization</b>	No data available

<b>Section XII. Ecological Information</b>	
<b>Ecotoxicity</b>	ATE = Acute LC <sub>50</sub> 3.54 mg/L (48 Hrs) (% Unknown and assumed non-hazardous: 2.2%) <b>Ethyl lactate 97-64-3</b> Acute EC <sub>50</sub> 683,000 µg/L Fresh Water Daphnia - <i>Daphnia magna</i> (48 Hrs) Acute LC <sub>50</sub> 320,000 to 417,000 µg/L Fresh Water Fish - <i>Danio reiro</i> (96 Hrs) <b>Pyriproxyfen 95737-68-1</b> Acute EC <sub>50</sub> 56 ppb Fresh Water Algae - <i>Pseudokirchneriella subcapitata</i> (72 Hrs) Acute LC <sub>50</sub> 80 µg/L Fresh Water Daphnia - <i>Daphnia carinata</i> - Neonate (48 Hrs) Acute LC <sub>50</sub> 270 ppb Fresh Water Fish - <i>Lepomis macrochirus</i> (96 Hrs) Chronic NOEC 0.01 ppb Marine Water Daphnia - <i>Daphnia magna</i> (21 days) Chronic NOEC 4.3 ppb Fish - <i>Oncorhynchus mykiss</i> (95 days)
<b>Mobility</b>	Not available
<b>Persistence and Degradability</b>	Not available
<b>Bioaccumulation potential</b>	Not available

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

<b>Sentry Flea &amp; Tick Squeeze-On</b>
<b>for Cats and Kittens</b>
50363

Section XIII. Disposal Considerations	
Disposal recommendations	The generation of waste should be avoided or minimized wherever possible. Dispose of in accordance with federal, provincial and local regulations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Disposal of damaged packaging	If the container contains residue of a hazardous product, follow all MSDS and label precautions even after container is emptied.
Regulatory disposal information	Data not available

Section XIV. Transport Information	
<b>D.O.T. Classification</b>	
UN1993, FLAMMABLE LIQUID, N.O.S. (Ethyl lactate), Class 3	
 	
Packaging group III	
Environmental hazard: Yes	
Additional information: This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.	
The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes.	
Remarks: Limited Quantity Exemption	
<b>Special precautions for user:</b>	
Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	

Section XV. Regulatory Information	
<b>Exposure limits</b>	





# MATERIAL SAFETY DATA SHEET

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

**Sentry Flea & Tick Squeeze-On**

**for Cats and Kittens**

50363

Page 9 of 9

None

### GHS Classification of pure substance

#### Ethyl lactate 97-64-3

Flammable Liquids, Category 3

Serious Eye Damage/Eye Irritation, Category 1

Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation), Category 3

#### Pyriproxyfen 95737-68-1

AQUATIC HAZARD (ACUTE) - Category 1

AQUATIC HAZARD (LONG-TERM) - Category 1

### Canadian Regulations

WHMIS Classification: Not applicable

### U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

### State regulations

Massachusetts: The following components are listed: Ethyl lactate

New York: None of the components are listed.

New Jersey: The following components are listed: Ethyl lactate, Pyriproxyfen

Pennsylvania: The following components are listed: Ethyl lactate

### California Prop. 65

No products were found.

### 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: December 22<sup>nd</sup>, 2014