

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

Sentry Flea, Tick & Mosquito

Squeez-On for Dogs (up to 15 kg)

70025

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Section I. Product and Company Identification			
Product name	Sentry Flea, Tick & Mosquito Squeez-On for Dogs (up to 15 kg)		
CAS #	Mixture		
P.C.P. ACT REG. #	31611		
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 Acute Toxicity (Oral), Category 4 Acute Toxicity (Inhalation), Category 4 Skin Corrosion/ Irritation, Category 2 Aquatic Hazard (Acute), Category 1 Aquatic Hazard (Long Term), Category 1

GHS label elements

Hazard pictograms:



Signal word : Warning Hazard statements : Flammable liquid and vapor. Harmful if swallowed or inhaled. Causes skin irritation. May cause an allergic skin reaction. Very 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 protective clothing. 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



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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.

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.

Storage: 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 #					
Permethrin (ISO)	≥25 - ≤50	52645-53-1			
(R)-p-mentha-1,8-diene	≥10 - ≤25	5989-27-5			
2-(1-Methyl-2-(4-phenoxyphenoxy)ethoxy)pyridin	≥1 - ≤3	95737-68-1			

Section IV. Fir	rst Aid Measures
Description of	f Necessary First Aid Measures
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. If irritation persists, get medical attention.
Skin contact	Wash with plenty of water and soap. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention if symptoms occur. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Wash clothing and shoes before reuse.
Inhalation	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. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. 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	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



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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 does not enter the lungs. Get medical attention. If necessary, call a poison center or 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.

Most Important Symptoms/Effects, Acute and Delayed

Potential Acute Health Effects

Eye contact No known significant effects or critical hazards.

Inhalation Harmful if inhaled.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Ingestion Harmful if swallowed

Over exposure signs and symptoms

Eye contactAdverse symptoms may include the following: pain, irritation, watering, and redness.InhalationNo known significant effects or critical hazards.

Skin Contact Adverse symptoms may include the following: irritation and redness.

Ingestion No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes toIn case of inhalation of decomposition products in a fire, symptoms may be delayed.physicianThe exposed person may need to be kept under medical surveillance for 48 hours.SpecificNo specific treatment.

treatmentsProtection of
first-aidersNo action shall be taken involving any personal risk or without suitable training. If it is
suspected that fumes are still present, the rescuer should wear an appropriate mask
or self-contained breathing apparatus. It may be dangerous to the person providing
aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly
with water before removing it, or wear gloves.

Section V. Fire Fighting Measures

Suitable extinguishing media

Dry chemical, carbon dioxide, water spray (fog) or foam. Do not use water jet or water based 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 very toxic to aquatic life with long lasting effects. Fire water 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, nitrogen oxides and halogenated compounds.

Special protective actions for fire-fighters



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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.

Section VI. Accident	tal Release Measures
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. Avoid breathing 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 non-emergency personnel".
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 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, water courses, 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.

Section VII. Handling and Storage

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes or on skin or clothing. Do not breathe vapor or mist. 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.



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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. 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.

Section VIII.	Exposure Controls and Personal Protection
Individual pro	otection measures
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.
Protective clothing	 Eye/face protection 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. Hand protection: 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 may 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. Body protection: 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 discharges, clothing should include anti-static overalls, boots and gloves. Other skin protection: Appropriate footwear and any additional skin protection measures should be approved by a specialist before handling this product.



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	Respiratory protection: 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.			
Engineering controls	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. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.			
Occupational				
exposure	Ingredient	Exposure Limits		
limits	Permethrin (ISO)	None		
	(R)-p-mentha-1,8-diene	AIHA WEEL (United States, 7/2018). TWA: 30 ppm 8 hours		
	2-(1-Methyl-2-(4-	None		
	phenoxyphenoxy)ethoxy)pyridin			

Section IX. Physical and Chemical Properties	
Appearance (physical state, color, etc) / Odor	Clear, pale yellow liquid with characteristic odor
Odor threshold	Data not available
рН	Data not available
Melting point / Freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	Closed cup: 54 °C (129.2 ° F)
Evaporation rate	Data not available
Flammability (solid, gas)	Data not available
Upper / Lower flammability limits (% volume)	Data not available
Specific gravity	1.02-1.07 g/ml
Vapor pressure	Data not available
Vapor density	Data not available
% Volatile	Data not available
% VOC content (w/w)	15.8
Solubility	Insoluble in cold and hot water
Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Data not available



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Decomposition temperature	Data not available
Viscosity	Data not available

Section X. Stability and Reactivity			
Reactivity	No specific test data related to reactivity available for this product or its ingredients.		
Chemical stability	The product is stable.		
Possibility of Hazardous Reactions	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.		

Information on toxico	ological effects				
Acute toxicity					
	Product/ Ingredient	Result	Species	Dose	Exposure
	Permethrin (ISO)	LD ₅₀ Oral	Rat	383 mg/kg	-
	(R)-p- mentha-1,8- diene	LD_{50} Dermal	Rabbit	>5000 mg/kg	-
	(R)-p- mentha-1,8- diene	LD ₅₀ Oral	Rat	4400 mg/kg	-

Product/ Ingredient	Result	Species	Score	Exposure	Observation
Permethrin (ISO)	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
(R)-p- mentha- 1,8-diene	Skin - Mild irritant	Rabbit	-	24 hours 10%	-



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Sensitization	There is no data available.			
Mutagenicity	There is no data available.			
			I	
	Product/ Ingredient	OSHA	IARC	NTP
Carcinogenicity	Permethrin (ISO)	-	3	-
caronogeniory	(R)-p-mentha-1,8-diene	-	3	-
Reproductive Toxicity	There is no data available.			
Teratogenicity	There is no data available.			
Specific target organ	There is no data available.			
toxicity (single exposure)	There is no data available.			
Specific target organ toxicity (repeated	There is no data available.			
exposure)				
exposure)				
	Name Result			
Aspiration hazard	(R)-p-mentha-1,8-diene			ZARD- Category 1
Information on the likely			1	
route of exposure	Dermal contact. Eye contact. Inhalation. Ingestion.			
Chronic effects	No known significant effects or critical hazards.			
Potential acute health effe	ects			
Eye contact	No known significant effect	s or critical h	nazards.	
Inhalation	Harmful if inhaled.			
Skin contact	Causes skin irritation. May	cause an alle	ergic skin reactio	n
Ingestion	Harmful if swallowed.			
Symptoms related to the	physical, chemical and toxico			
	Adverse symptoms may inc	lude the foll	owing:	
Eye contact	pain or irritation			
	watering			
	 redness 			
Inhalation	No known significant effect			
	Adverse symptoms may include the following:			
Skin contact	irritation			
	 redness 			
Ingestion	No known significant effect			
Delayed and immediate e	ffects and also chronic effect	<u>s from</u> short	and long term e	exposure



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	Potential immediate effects: No know	wn significant effects or critical
Short term exposure	hazards.	-
	Potential delayed effects: No known significant effects or critical hazards.	
	Potential immediate effects: No known significant effects or critical	
Long term exposure	hazards.	
	Potential delayed effects: No known significant effects or critical hazards.	
	General: Once sensitized, a severe allergic reaction may occur when	
	subsequently exposed to very low levels.	
Potential chronic health effects	Carcinogenicity: No known significant effects or critical hazards.	
	Mutagenicity: No known significant effects or critical hazards.	
	Teratogenicity: No known significant effects or critical hazards.	
	Developmental effects: No known significant effects or critical hazards.	
	Fertility effects: No known significant effects or critical hazards.	
Numerical measures of to	xicity	
	Route	ATE Value

	Route	ATE Value
Acute toxicity estimate	Oral	851.09 mg/kg
	Inhalation (dusts and mists)	3.33 mg/L

Section XII. Eco	logical Information
	Component analysis
	Permethrin (ISO)
	Acute EC ₅₀ 68 μg/L Marine water Algae - Skeletonema costatum - Exponential
	growth phase 96 Hrs
	Acute EC ₅₀ 0.11 μ g/L Fresh water Crustaceans - Orconectes immunis 48 Hrs
	Acute EC ₅₀ 0.151 ppb Fresh water Daphnia <i>- Daphnia magna</i> 48 Hrs
	Acute LC ₅₀ 0.62 μg/L Fresh water Fish - <i>Oncorhynchus mykiss</i> 96 Hrs
	Chronic NOEC 0.039 ppb Marine water Daphnia - <i>Daphnia magna</i> 21 days
Feetewieit	Chronic NOEC 0.3 ppb Fresh water Fish - Pimephales promelas 246 days
Ecotoxicity	(R)-p-mentha-1,8-diene
	Acute EC ₅₀ 421 μg/L Fresh water Daphnia - <i>Daphnia magna</i> 48 Hrs
	Acute EC ₅₀ 688 μg/L Fresh water Fish - <i>Pimephales promelas</i> 96 Hrs
	2-(1-Methyl-2-(4-phenoxyphenoxy) ethoxy)pyridine
	Acute EC ₅₀ 56 ppb Fresh water Algae - Pseudokirchneriella subcapitata 72 Hrs
	Acute LC ₅₀ 80 μg/L Fresh water Daphnia - Daphnia carinata - Neonate 48 Hrs
	Acute LC ₅₀ 0.45 ppm Fresh water Fish - Oncorhynchus mykiss 96 Hrs
	Chronic NOEC 0.01 ppb Marine water Daphnia - Daphnia magna 21 days
	Chronic NOEC 4.3 ppb Fish - Oncorhynchus mykiss 95 days
Mobility	Not available



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Persistence and Degradability

Not available

Bioaccumulation potential

Product/Ingredient	LogPow	BFC	Potential
Permethrin (ISO)	6.5	-	high
(R)-p-mentha-1,8- diene	4.38	-	high

Section XIII. Disposal ConsiderationsDisposal recommendationsThe generation of waste should be avoided or minimized wherever possible. Dispose of in accordance with federal, provincial and local regulations. This material and its container must be disposed of in a safe way. 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, deneme and envertee.		
wherever possible. Dispose of in accordance with federal, provincial and local regulations. This material and its container must be disposed of in a safe way. 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,	Section XIII. Disposal Consideration	ons
arains and sewers.		The generation of waste should be avoided or minimized wherever possible. Dispose of in accordance with federal, provincial and local regulations. This material and its container must be disposed of in a safe way. 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
Regulatory disposal information Data not available	Regulatory disposal information	Data not available

Section XIV. Transport Information			
	DOT Classification	IMPC	1070
	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN1993	UN1993	UN1993
UN proper shipping	FLAMMABLE LIQUID,	FLAMMABLE LIQUID,	FLAMMABLE LIQUID,
name	N.O.S ((R)-p-mentha-	N.O.S ((R)-p-mentha-	N.O.S ((R)-p-mentha-
	1,8-diene)	1,8-diene). Marine	1,8-diene)
		pollutant (Permethrin	
		(ISO), (R)-p-mentha-	
		1,8-diene)	



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Transport hazard class(es)	Class 3	Class 3	Class 3
Packaging group			
Enivronmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
AERG : 128 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, unless			

DOT Classification	transported by vessel.
DOT Classification:	This product is not regulated as a marine when transported on inland
	waterways in sizes of \leq 5 L or \leq 5 kg or by road, rail, or inland air in non-bulk
	sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a

IMDG:	The marine pollutant mark is not required when transported in sizes of \leq 5 L or
IMDG.	≤5 kg.
IATA:	The environmentally hazardous substance mark may appear if required by
	other transportation regulations.
Special precautions	Transport within user's premises: always transport in closed containers that
Special precautions for user:	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		
Exposure limits	None	
Canadian Regulations		
WHMIS Classification	Not applicable	
U.S. Federal regulation	ns	
United States	All components are listed or exempted.	
inventory (TSCA 8b):		
Clean Air Act Section	Not listed	
112 (b) Hazardous		
Air Pollutants (HAPs):		
Clean Air Act Section	Not listed	
602 Class I		
Substances:		



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Clean Air Act Section 602 Class II Substances:	Not listed			
DEA List I Chemicals	Not listed			
(Precursor	Not listed			
Chemicals):				
DEA List II Chemicals	Not listed			
(Essential				
Chemicals):				
SARA 302/ 304	No products were found.			
	SAR 304 RQ: Not Applicable	e		
SARA 311/312	Classification:			
	Flammable Liquids - Category 3			
	Acute Toxicity (oral) - Cate	gory 4		
	Acute Toxicity (inhalation)	- Category 4		
	Skin Corrosion/Irritation, C			
	Skin Sensitization, Category	•		
	Composition/Information	on ingredie		
	Name		Classification	
	Permethrin (ISO)			ty (Oral), Category 4
	Permethrin (ISO)		Acute Toxicit	ty (Inhalation), Category
	Permethrin (ISO)		-	ation, Category 1
	(R)-p-mentha-1,8-diene			iquids, Category 3
	(R)-p-mentha-1,8-diene			on/Irritation, Category 2
	(R)-p-mentha-1,8-diene			ation, Category 1
	(R)-p-mentha-1,8-diene			ard (Long Term),
			Category 1	
<u>SARA 313</u>		[· · · · · · · · · · · · · · · · ·
		Product Na		CAS number
	Form R – Reporting	Permethri	n (ISO)	2645-53-1
	requirements			
	Supplier notification	Permethri	n (ISO)	2645-53-1
	SARA 313 notifications mu and redistribution of the S notice attached to copies of	SDS shall inc	lude copying	and redistribution of the
State Regulations			, , , .	
Massachusetts:	The following components	are listed: P	ermethrin (ISC))
	Sector Sector Sector			- /



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New York:	The following components are listed: Permethrin (ISO)
New Jersey:	The following components are listed: Permethrin (ISO)
Pennsylvania	None of the components are listed.
Massachusetts:	The following components are listed: Permethrin (ISO)
California Prop. 65	No products were found.

Justification	
On basis of test data	
Calculation method	

Key to abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader: 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: April 30, 2020