

SAFETY DATA SHEETS

This SDS packet was issued with item:

078935417

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078911019 078916288 078916931 078926165 078926166 078926167 078935415



SAFETY DATA SHEET

1. Identification

Product identifier Cheristin for cats

Other means of identification

Item Code CA4590

Recommended use Insecticide

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Elanco Animal Health
2500 Innovation Way
Greenfield, IN 46140
US

Phone: 1-877-Elanco1 (1-877-352-6261)

Email: lilly_msds@lilly.com

Emergency Telephone Numbers: Elanco Product Technical Support / Human or Animal Exposure Reporting:
1-888-545-5973

Transportation Emergency Telephone: CHEMTREC: 1-800-424-9300
(Outside U.S. 1-703-527-3887)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2B

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word Warning

Hazard statement

H320 Causes eye irritation.

Precautionary statement

Prevention

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage Not available.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Spinetoram		935545-74-7	11.2

Material name: Cheristin for cats

4316 Version #: 02 Revision date: 09-21-2017 Issue date: 12-17-2014

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Chemical name	Common name and synonyms	CAS number	%
Benzyl Alcohol		100-51-6	18
Propylene Carbonate		108-32-7	69

Composition comments Spinetoram is a mixture of the following components: Spinetoram J (CAS# 187166-40-1) and Spinetoram L (CAS# 187166-15-0)

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

4. First-aid measures

Inhalation Remove to fresh air. Oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur.

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion If conscious, give the victim plenty of water to drink. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

Most important symptoms/effects, acute and delayed Eye irritation.

General information In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep victim warm.

5. Fire-fighting measures

Suitable extinguishing media Water. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing media Not available.

Specific hazards arising from the chemical Not applicable.

Special protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up Use absorbent/adsorbent material to solidify liquids. Solidification may not suppress vapors. Vacuuming liquids or solidified material may disperse vapors. Large spills due to traffic accidents, etc., should be reported immediately to CHEMTREC and Elanco Animal Health for assistance.

Environmental precautions Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes.

7. Handling and storage

Precautions for safe handling Avoid contact with eyes, skin, and clothing. Avoid breathing mists or vapors. Wash hands thoroughly after handling. Use personal protection recommended in Section 8 of the SDS.

Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Benzyl Alcohol (CAS 100-51-6)	TWA	44.2 mg/m3
		10 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Use appropriate control measures such as fume hood, ventilated enclosure, isolator (eg. glovebag, glovebox), or closed material transfer systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear goggles/face shield.

Skin protection	
Hand protection	Chemical-resistant gloves and impermeable body covering to minimize skin contact.
Other	Chemical-resistant gloves and impermeable body covering to minimize skin contact.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the respirator. Use an approved respirator. Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor.
Thermal hazards	Not applicable.
General hygiene considerations	<p>In a manufacturing setting, wear chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.</p> <p>When mixing and handling, use protective clothing, impervious gloves, and dust respirator (recommended). Operators should wash thoroughly with soap and water after handling. If accidental eye contact occurs, immediately rinse with plenty of water.</p> <p>Under normal use and handling conditions, wear goggles to protect eyes and wear impermeable gloves and protective equipment to avoid direct contact with skin. Wash thoroughly with soap and water after handling.</p>

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Light yellow.
Odor	Earthy
Odor threshold	Not available.
pH	6.5 (1% aqueous solution)
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	232.0 °F (111.1 °C) Pensky-Martens Closed Cup
Evaporation rate	No data available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	No data available.
Flammability limit - upper (%)	No data available.
Explosive limit - lower (%)	No data available.
Explosive limit - upper (%)	No data available.

Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	
Solubility (water)	No data available.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	Not available.
Viscosity	3.3 cP 40 C 5.8 cP 20 C

Other information

Density	No data available.
Explosive properties	Not explosive.
Oxidizing properties	The substance or mixture is not classified as oxidizing.

Specific gravity 1.162 g/mL

10. Stability and reactivity

Reactivity	Not water reactive.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions..

11. Toxicological information

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Benzyl Alcohol (CAS 100-51-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2000 mg/kg
Inhalation		
LD50	Rat	> 4178 mg/m3, 4 hr
Oral		
LD50	Rabbit	1940 mg/kg
Propylene Carbonate (CAS 108-32-7)		
<u>Acute</u>		
Dermal		
LD50		> 2000 mg/kg (no mortality)
Oral		
LD50		> 5000 mg/kg (no mortality)
Spinetoram (CAS 935545-74-7)		
<u>Acute</u>		
Dermal		
LD	Rabbit	> 5000 mg/kg
Inhalation		
LC50	Rat	> 5.44 mg/l, 4 h
Oral		
LD	Rat	> 5000 mg/kg
Skin corrosion/irritation	Rabbit: Slight irritation. (similar substance) Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Rabbit: Irritating.	
Respiratory or skin sensitization		
Respiratory sensitization	Due to lack of data the classification is not possible.	
Skin sensitization	Guinea pig: Not a skin sensitizer. (similar substance) Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Result in genetic toxicity assays (in vitro and in vivo): Negative (Spinetoram, Propylene Carbonate) Based on available data, the classification criteria are not met.	
Carcinogenicity	No effects identified in animal studies. (Spinetoram, Propylene Carbonate) Based on available data, the classification criteria are not met.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Not listed.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not regulated.		

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. (Spinetoram, Benzyl Alcohol) Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	No significant target organ toxicity reported. (Spinetoram) Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	No significant target organ toxicity reported. (Spinetoram, Propylene Carbonate) Based on available data, the classification criteria are not met.
Aspiration hazard	Not available.
Further information	Animal studies have reported the following effects: Liver effects. Kidney effects. Bone marrow changes. Information given is based on data obtained from similar substances.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Benzyl Alcohol (CAS 100-51-6)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	230 mg/l, 48 hr
Fish	LC50	Fathead minnow (Pimephales promelas)	460 mg/l, 96 hours
Propylene Carbonate (CAS 108-32-7)			
	EC50	Scenedesmus subspicatus (Desmodesmus subspicatus (Chodat))	> 900 mg/l, 72 hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Carp (Cyprinus carpio)	> 1000 mg/l, 96 hours
Spinetoram (CAS 935545-74-7)			
	LC50	Mysid (Mysidopsis bahia)	0.355 mg/l, 96 hours
Other	ErC50	Pseudokirchnerella subcapitata	1.06 mg/l, 72 hours
Aquatic			
Algae	ErC50	Duckweed (Lemna minor)	> 14.2 mg/l, 7 days (highest concentration tested)
Crustacea	EC50	Water flea (Daphnia magna)	0.229 mg/l, 48 hours
		Water flea (Daphnia magna)	0.951 µg/l, 21 days
			0.33 µg/l, 21 days
Fish	LC50	Bluegill (Lepomis macrochirus)	0.0624 µg/l, 21 days
			2.69 mg/l, 96 hours (highest concentration tested)
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 3.46 mg/l, 96 hours (highest concentration tested)
		NOEC	Fathead minnow (Pimephales promelas)
		Sheepshead minnow (Cyprinodon variegatus)	1.53 mg/l, 37 days
Other	ErC50	Diatom (Navicula seminulum)	0.127 mg/l, 72 hours
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential	Not known.		
Partition coefficient n-octanol / water (log Kow)			
Benzyl Alcohol		1.1	
Propylene Carbonate		-0.41	
Mobility in soil	Not available.		
Other adverse effects	Not available.		

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

General information Effective January 1, 2015 by Special Provision, UN3077 and UN3082 when packaged in inner packages of 5L / 5 KG or less are not subject to the dangerous goods regulations.

DOT

Not regulated as dangerous goods.

IATA

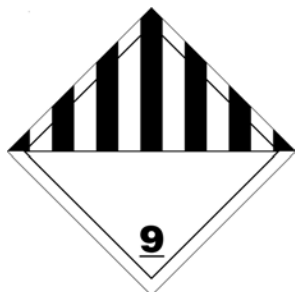
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Spinetoram)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Not available.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

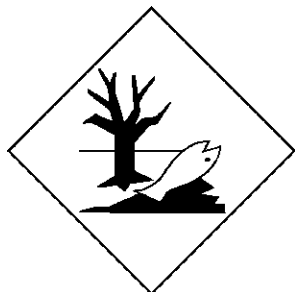
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Spinetoram)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	12-17-2014
Revision date	09-21-2017
Version #	02
Lilly Lab Code	Health: 2 Fire: 1 Reactivity: 0

Disclaimer

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:

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Revision information

This document has undergone significant changes and should be reviewed in its entirety.