

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078935415

**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 078935417

## 1. Product and Company Identification

**Material name** Cheristin for cats

**Version #** 01

**Issue date** 02-21-2014

**CAS #** Mixture

**Item Code** CA4590

**Manufacturer**

**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. Hazards Identification

**Emergency overview** WARNING

Harmful by inhalation. Irritating to eyes, respiratory system and skin. Skin Permeable. Suspect Allergen. May cause kidney, liver, or bone marrow damage through prolonged or repeated exposure.

**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Potential health effects**

**Routes of exposure**

Inhalation. Ingestion. Skin contact. Eye contact.

**Eyes**

Causes eye irritation.

**Skin**

May be irritating to the skin. May cause allergic skin reaction. May be absorbed through the skin. Information given is based on data on the components and the toxicology of similar products.

**Inhalation**

May be harmful if inhaled. Inhalation of vapours may cause central nervous system effects, headache, dizziness and nausea. Information given is based on data on the components and the toxicology of similar products.

**Ingestion**

May be harmful if swallowed.

**Chronic effects**

May cause central nervous system effects. May cause liver effects. May cause bone marrow effects. May cause kidney effects. Information given is based on data on the components and the toxicology of similar products.

**Signs and symptoms**

Inhalation of vapours may cause central nervous system effects, headache, dizziness and nausea. Eye irritation. Skin irritation. May cause allergic skin reaction.

**Potential environmental effects**

May cause long-term adverse effects in the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Spinetoram	935545-74-7	11.2
Trade Secret Aromatic Alcohol	Proprietary	18
Trade Secret	Proprietary	60 - 80
Other components below reportable levels		1 - 2.5

<b>Composition comments</b>	Spinetoram is a mixture of the following components: Spinetoram J (CAS# 187166-40-1) and Spinetoram L (CAS# 187166-15-0)
<b>4. First Aid Measures</b>	
<b>General advice</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep victim warm.
<b>First aid procedures</b>	
<b>Eye contact</b>	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.
<b>Skin contact</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Inhalation</b>	Remove to fresh air. Oxygen or artificial respiration if needed. Call a physician or poison control center immediately.
<b>Ingestion</b>	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.
<b>5. Fire Fighting Measures</b>	
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water. Carbon dioxide (CO2). Dry chemical.
<b>Protection of firefighters</b>	
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective clothing.
<b>Fire fighting equipment/instructions</b>	Not available.
<b>Hazardous combustion products</b>	Hazardous decomposition products formed under fire conditions.
<b>6. Accidental Release Measures</b>	
<b>Personal precautions</b>	See Section 8 of the MSDS for Personal Protective Equipment.
<b>Environmental precautions</b>	Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes.
<b>Methods for cleaning up</b>	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.
<b>Other information</b>	Refer to Sections 8, 11, 12 and 13 for more information.
<b>7. Handling and Storage</b>	
<b>Handling</b>	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 MSDS.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place.
<b>8. Exposure Controls / Personal Protection</b>	
<b>Engineering controls</b>	TRADE SECRET AROMATIC ALCOHOL: US WEEL: TWA 10 ppm  Use appropriate control measures such as fume hood, ventilated enclosure, isolator (eg. glovebag, glovebox), or closed material transfer systems.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear goggles/face shield.
<b>Skin protection</b>	Chemical-resistant gloves and impermeable body covering to minimize skin contact.
<b>Respiratory protection</b>	Use an approved respirator. Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor.

## General hygiene considerations

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.

When mixing and handling, use protective clothing, impervious gloves, and dust respirator. Operators should wash thoroughly with soap and water after handling. If accidental eye contact occurs, immediately rinse with plenty of water.

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.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Not available.
<b>Form</b>	Liquid.
<b>Color</b>	Light yellow.
<b>Odor</b>	Earthy
<b>Odor threshold</b>	Not available.
<b>pH</b>	6.5 (1% aqueous solution)
<b>Vapor pressure</b>	No data available.
<b>Vapor density</b>	No data available.
<b>Boiling point</b>	No data available.
<b>Melting point/Freezing point</b>	No data available.
<b>Solubility (water)</b>	No data available.
<b>Specific gravity</b>	1.16 g/mL
<b>Relative density</b>	No data available.
<b>Flash point</b>	232.0 °F (111.1 °C) Pensky-Martens Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	No data available.
<b>Flammability limits in air, lower, % by volume</b>	No data available.
<b>Auto-ignition temperature</b>	No data available.
<b>Evaporation rate</b>	No data available.
<b>Viscosity</b>	3.3 cP 40 C 5.8 cP 20 C
<b>Other data</b>	
<b>Density</b>	No data available.
<b>Explosive limit - lower (%)</b>	No data available.
<b>Explosive limit - upper (%)</b>	No data available.
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	The substance or mixture is not classified as oxidizing.
<b>Physical state</b>	Liquid.

## 10. Chemical Stability & Reactivity Information

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

## 11. Toxicological Information

### Toxicological data

Product	Species	Test Results
Cheristin for cats (CAS Mixture)		
Components	Species	Test Results
Spinetoram (CAS 935545-74-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD	Rabbit	> 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2.01 mg/l, 4 h
<i>Oral</i>		
LD	Rat	> 5000 mg/kg
<b>Sensitization</b>	May cause sensitization by skin contact.	
<b>Acute effects</b>	Harmful if inhaled. Harmful in contact with skin. May be harmful if swallowed.	
<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.	
<b>Chronic effects</b>	May cause damage to the liver and kidneys. May cause bone marrow effects.	
<b>Carcinogenicity</b>	No effects identified in animal studies. (Spinetoram)	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		
Not listed.		
<b>Skin corrosion/irritation</b>	May be irritating to the skin. Based on available data, the classification criteria are not met.	
<b>Epidemiology</b>	No epidemiological data is available for this product.	
<b>Mutagenicity</b>	Result in genetic toxicity assays (in vitro and in vivo): Negative (Spinetoram)	
<b>Reproductive effects</b>	In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. (Spinetoram) Based on available data, the classification criteria are not met.	
<b>Symptoms and target organs</b>	Irritating to eyes, respiratory system and skin. May produce an allergic reaction.	

## 12. Ecological Information

### Ecotoxicological data

Components		Species	Test Results
Spinetoram (CAS 935545-74-7)			
<i>Acute</i>			
Crustacea	LC50	Daphnia magna	> 3.17 mg/l
Other	LC50	Rainbow Trout	> 3.46 mg/l (highest concentration tested)
	LD	Duck	> 2250 mg/kg (Mallard and Bobwhite)
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.0624 µg/l
Other	NOEC	-	0.375 µg/l (Chironomus riparius)
		Duck	1000 mg/kg (Mallard and Bobwhite) (Reproductive toxicity)
			1000 mg/kg (Mallard and Bobwhite) (Dietary toxicity)
		Rainbow Trout	0.182 mg/l
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Duckweed (Lemna minor)	> 14.2 mg/l (highest concentration tested)
Fish	LC50	Bluegill (Lepomis macrochirus)	2.69 mg/l (highest concentration tested)

<b>Ecotoxicity</b>	Toxic to aquatic life with long lasting effects.
<b>Environmental effects</b>	Toxic to aquatic organisms.
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulation / Accumulation</b>	Not known.

#### Bioaccumulative potential

##### Octanol/water partition coefficient log K<sub>ow</sub>

Trade Secret	-0.41
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<b>Partition coefficient</b>	No data available.
Trade Secret	-0.41

## 13. Disposal Considerations

<b>Disposal instructions</b>	Call your local solid waste agency or 1-800-CLEANUP or equivalent organization for disposal instructions. Unless otherwise instructed place in trash. Never place unused product down any indoor or outdoor drain or on the ground. Non-refillable container. Do not reuse this container. Place in the trash, or offer for recycling if available. if partly filled, call your local solid waste agency for disposal instructions.
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## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### IATA

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

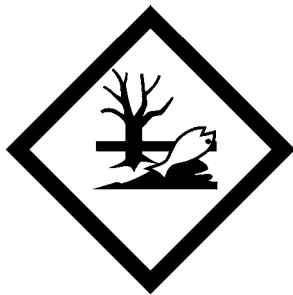
### IMDG

<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Spinetoram), MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-F
<b>Special precautions for user</b>	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.

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

### DEA Exempt Chemical Mixtures Code Number

Not regulated.

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

Not regulated.

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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).

### 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.

### US. Massachusetts RTK - Substance List

Trade Secret Aromatic Alcohol (CAS Proprietary)

**US. Pennsylvania RTK - Hazardous Substances**

Trade Secret Aromatic Alcohol (CAS Proprietary) Listed.

**US. Rhode Island RTK**

Not regulated.

**16. Other Information****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:

Elanco Animal Health  
00+1+317-276-2000  
00+1-800-428-4441

**This data sheet contains changes from the previous version in section(s):**

Product and Company Identification: Alternate Trade Names  
Exposure Controls / Personal Protection: Skin protection  
Physical & Chemical Properties: Multiple Properties  
Toxicological Information: Toxicological Data  
Ecological Information: Ecotoxicity  
Transport Information: Material Transportation Information  
Other Information: Disclaimer