

## Section 1 - Identification of the Material and Supplier

Elanco Animal Health, division of Eli Lilly and Company (NZ) Limited

Level 1  
123 Ormiston Road  
Botany Junction  
Auckland 2016

Telephone number: 0800 352 626

**Emergency telephone numbers:**  
**CHEMCALL: 0800 CHEMCALL (0800 243 622) 24 hours**  
**National Poisons Centre: 0800 764 766 (0800 POISON)**  
**Fire Brigade, Transport Emergency Phone →111**

**Trade Name:** **Expo Extinosad Pour-On**

**Product Use:** As described on the product label:  
For the control of lice on all breeds of sheep.

**This version issued:** **19 October 2017** and is valid for 5 years from this date.

**National Poisons Centre:** **Phone 0800 764 766 (0800 POISON) in New Zealand**

## Section 2 - Hazards Identification

**EPA Approval Code:** HSR100008

### Hazard Classifications:

- 6.4A: Eye irritant
- 6.9B: Target organ toxicity
- 9.1B: Aquatic ecotoxicant
- 9.4A: Invertebrate ecotoxicant



### GHS Signal word:

#### Warning

#### HAZARD STATEMENT:

- H319: Causes serious eye irritation.
- H373: Spinosad may cause damage to organs through prolonged or repeated exposure.
- H411: Toxic to aquatic life with long lasting effects.
- H441: Very toxic to terrestrial invertebrates.

#### PREVENTION

- P103: Read label before use.
- P260: Do not breathe mist.
- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves.
- P273: Avoid release to the environment.

#### RESPONSE

- P314: Get medical advice if you feel unwell.
- H391: Collect spillage.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+313: If eye irritation persists, get medical advice.

#### STORAGE

No storage statements.

#### DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

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### Section 3 - Composition/Information on Ingredients

Ingredient	CAS number	Concentration	Hazard Classifications for ingredient
Spinosad	168316-95-8	2.0%	6.9B, 9.1B, 9.4A
Propylene glycol	57-55-6	20.0%	6.9B
Trimethylnonalol polyethylene glycol	60828-78-6	10.0%	6.4A
Other ingredients	NA	To 100	

### Section 4 - First Aid Measures

**General Information:** You should call a National Poisons Centre if you feel irritated by this product. The number is 0800 764 766 in New Zealand, and is available at all times. Have this SDS with you when you call.

**Inhalation:** If inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

**Skin Contact:** Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for few minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard.

**Eye Contact:** If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a National Poisons Centre, or call a doctor.

### Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness.

**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam, water fog.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. Recommended personal protective equipment is full fire kit and breathing apparatus.

**Flash point:** No data available

**Auto ignition temperature:** No data available

**Flammability Class:** No data available

### Section 6 - Accidental Release Measures

**Personal Precautions:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with skin, eyes and clothing.

**Environmental Precautions:** Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes. Avoid release to the environment.

**Methods and Materials for Containment and Cleaning up:** Clean up promptly and shovel the absorbed spill into drums for disposal. Large spills due to traffic accidents, etc., should be reported immediately to Elanco Animal Health for assistance.

### Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Store below 30°C in original container, tightly closed, away from direct sunlight, in a cool, dry place. Do not freeze. Do not store with food. Keep out of reach of children.

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## Section 8 - Exposure Controls and Personal Protection

**Occupational exposure limits:** Spinosad: Supplier: TWA 0.3 mg/m<sup>3</sup>  
Propylene glycol: AIHA: TWA 10 mg/m<sup>3</sup>

**Engineering Controls:** Laboratory fume hood or local exhaust ventilation.

**Ventilation:** Make sure that the work environment remains clean.

**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used.

**Skin Protection:** Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber, PVC.

**Respirator:** In case of insufficient ventilation, wear suitable respiratory equipment.

## Section 9 - Physical and Chemical Properties:

<b>Appearance:</b>	Blue, clear, low viscosity aqueous suspension
<b>Odour:</b>	Earthy
<b>Odour threshold:</b>	No data available
<b>pH:</b>	4.0 – 4.1
<b>Melting point/freezing point:</b>	No data available
<b>Initial boiling point and boiling range:</b>	No data available
<b>Flash point:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	1.023
<b>Solubility (water):</b>	Soluble
<b>Partition coefficient: n-octanol/water:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Kinematic viscosity:</b>	No data available

## Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** Strong oxidising agents.

**Fire Decomposition:** Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed.

**Section 11 - Toxicological Information**

Hazardous properties	Ingredient	Toxicological (health) effects
<b>Acute toxicity:</b>	Spinosad	Oral: LD50 (male rat) 4444 mg/kg LD50 (female rat) >5000 mg/kg LDLo (dog) >400 mg/kg
	Spinosad	Inhalation: LC50 (rat) >5180 mg/m <sup>3</sup> (4 h)
	Propylene glycol	Inhalation: Dog; 313 g/m <sup>3</sup> to 627 g/m <sup>3</sup> for 15 minutes, no deaths or toxicity
	Spinosad	Dermal: LD50 (rabbit) >5000 mg/kg
<b>Aspiration hazard:</b>		No information available
<b>Respiratory irritation:</b>		No information available
<b>Skin corrosion/irritation:</b>	Spinosad	Rabbit: no irritation
<b>Serious eye damage/ irritation:</b>	Spinosad	Rabbit: slight irritation
<b>Respiratory or skin sensitisation:</b>	Spinosad	Guinea pig: Did not cause sensitisation on laboratory animals
<b>Germ cell mutagenicity:</b>	Spinosad	Result in genetic toxicity assays (in vitro and in vivo): Negative
	Polyethylene glycol	In-vitro mutagenicity studies were negative. Animal mutagenicity studies were negative.
<b>Carcinogenicity:</b>	Spinosad	Did not cause cancer in long term animal studies.
	Propylene glycol	Multiple long term dietary, inhalation, and dermal studies demonstrated no evidence of carcinogenicity in mice, rabbits, or rats.
<b>Reproductive toxicity:</b>	Spinosad	In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.
	Polyethylene glycol	Decreased offspring survival and foetal weight at doses toxic to the dam.
<b>Specific organ toxicity:</b>	Spinosad	In animals, has been shown to cause vacuolation of cells in liver, kidney and bone tissues and changes in blood and serum biochemistry. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. Decreased activity, leg weakness and intermittent tremours were reported in a female dog given oral doses of 200 mg/kg/day for 5 days. These effects were not observed in a male dog.
	Polyethylene glycol	Kidney effects (decreased weight, tissue changes)
<b>Narcotic effects:</b>		No information available

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## Section 12 - Ecological Information

Hazardous properties	Ingredient	Ecotoxicity
<b>Aquatic:</b>	Spinosad	Algae: EC50 / Pseudokirchneriella subcapitata: >105.5 ppm EC50 / Navicula sp.: 0.107 mg/l
	Spinosad	Fish: LC50 / 96h / Lepomis macrochirus: 5.94 mg/L LC50 / 96h / Oncorhynchus mykiss: 30 mg/L
	Spinosad	Daphnia: EC50 / 48 h / Daphnia magna: 92.7 mg/l
<b>Terrestrial:</b>		No information available

**Persistence and degradability:** Propylene glycol: Expected to be degraded by microorganisms.

**Bioaccumulative:** Spinosad: Does not bioconcentrate in aquatic organisms. Not persistent due to photolysis and biodegradation.  
Propylene glycol: Not expected to bioconcentrate in aquatic organisms.

**Mobility in soil:** No data available

**Other adverse effects:** No data available

## Section 13 - Disposal Considerations

**Disposal:** Follow the label directions.

Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Triple rinse container with water and dispose of rinsate away from waterways. Crush or puncture and bury in a suitable landfill, or if appropriate recycle. Do NOT use container for any other purpose.

## Section 14 - Transport Information

**UN Number:** 3082

**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Spinosad)

**UN dangerous goods class and subsidiary risk:** 9

**UN Packaging Group:** III

**Environmental hazards:** Marine pollutant

**Special precautions when transporting the substance:**

HAZCHEM Code: 3Z



## Section 15 - Regulatory Information

**EPA Approval Code:** HSR100008

**Hazard Classifications:**

6.4A: Eye irritant

6.9B: Target organ toxicity

9.1B: Aquatic ecotoxicant

9.4A: Invertebrate ecotoxicant

**Certified handler:** Not required

**Tracking:** Not required

**ACVM No:** A010205

For conditions of registration see [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

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**Section 16 - Other Information**

**This SDS contains only safety-related information. For other data see product literature.**

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**Acronyms:**

<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>EPA</b>	Environmental Protection Authority
<b>HSNO</b>	Hazardous Substances and New Organisms
<b>LD50</b>	Lethal Dose for 50% of test organisms
<b>LC50</b>	Lethal Concentration of chemical in the air or water that will kill 50% of the test animals when administered a single exposure.
<b>LDLo</b>	The lowest amount of a solid or liquid material reported to have caused the death of animals or humans
<b>EC50</b>	Median effective concentration
<b>UN Number</b>	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS.

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

**Please read all labels carefully before using product.**

**This SDS is prepared in accordance with the HSNO Safety Data Sheet guidelines.**

**For additional information contact: 0800 352 626**

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