



Section 1 - Identification of the Material and Supplier

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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.

**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.



Section 8 - Exposure Controls and Personal Protection

Occupational exposure limits: Spinosad: Supplier: TWA 0.3 mg/m³
Propylene glycol: AIHA: TWA 10 mg/m³

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:

Appearance:	Blue, clear, low viscosity aqueous suspension
Odour:	Earthy
Odour threshold:	No data available
pH:	4.0 – 4.1
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.023
Solubility (water):	Soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	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
Acute toxicity:	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 ³ (4 h)
	Propylene glycol	Inhalation: Dog; 313 g/m ³ to 627 g/m ³ for 15 minutes, no deaths or toxicity
	Spinosad	Dermal: LD50 (rabbit) >5000 mg/kg
Aspiration hazard:		No information available
Respiratory irritation:		No information available
Skin corrosion/irritation:	Spinosad	Rabbit: no irritation
Serious eye damage/ irritation:	Spinosad	Rabbit: slight irritation
Respiratory or skin sensitisation:	Spinosad	Guinea pig: Did not cause sensitisation on laboratory animals
Germ cell mutagenicity:	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.
Carcinogenicity:	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.
Reproductive toxicity:	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.
Specific organ toxicity:	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)
Narcotic effects:		No information available

Section 12 - Ecological Information

Hazardous properties	Ingredient	Ecotoxicity
Aquatic:	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
Terrestrial:		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



Section 16 - Other Information

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

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

Acronyms:

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