



Expo Extinosad Pour-On

Effective Date: 20 September 2011

Section 1 – Identification of the substance and supplier

Product Name: Expo Extinosad Pour-On
Manufacturer's Product Code: AH0493
UN number: 3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (spinosad 2%)
Pack Size: 1L, 10L
Recommended use: Pour-On insecticide for the treatment of lice on sheep.

NEW ZEALAND COMPANY DETAILS:

Elanco Animal Health
(Division of Eli Lilly & Company (NZ) Limited)
Level 1, 123 Ormiston Road
Botany Junction, Auckland 2016
Telephone: 09 523 9320
(Mon-Fri, 8.30am – 5.00pm)
0800 ELANCO (0800 352 626)
www.elanco.co.nz

NEW ZEALAND EMERGENCY PHONE:

National Poisons Centre:
0800 POISON (0800 764 766)
24 hours

CHEMCALL:
0800 CHEMCALL (0800 243 622)
24 hours

Section 2 - Hazards Identification

Classified as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Expo is approved pursuant to the HSNO Act 1996, HSR008094. The EPA website www.epa.govt.nz should be consulted for the full list of triggered controls and cited regulations.

HSNO Classifications:

- 6.4A Eye irritant
- 6.9B Target Organ Toxin
- 9.1B Aquatic ecotoxin
- 9.4A Terrestrial invertebrate ecotoxin

Signal word: WARNING

Hazard Statements: Causes serious eye irritation
 Spinosad may cause target organ damage through prolonged or repeated exposure
 Toxic to aquatic life with long lasting effects
 Very toxic to terrestrial invertebrates

Precautionary Statements: Read label before use
 Wash hands and exposed skin thoroughly after handling
 Wear eye and face protection
 Do not breathe mist or spray.
 Avoid release to the environment
 Collect spillage
 Keep out of reach of children

Section 3 - Composition / Information on Ingredients

Chemical Name	CAS-No.	Concentration [%]
Spinosad	168316-95-8	2
Spinosyn A	131929-60-7	
Spinosyn D	131929-63-0	
Propylene Glycol	57-55-6	20
Trimethylnonalol polyethylene glycol	60828-78-6	10
Excipients not contributing to a hazard	NA	<10
Water	7732-18-5	>60

NA = Not applicable, Not assigned, or Not available.

Spinosad:

Chemical Name:

1H-as-Indaceno[3,2-d]oxacyclododecin-7,15-dione, 2-[(6-deoxy-2,3,4-tri-O-methylalpha-L-mannopyranosyl)oxy]-13-[[[(2R,5S,6R)-5-(dimethylamino)tetrahydro-6-methyl-2H-pyran-2-yl]oxy]-9-ethyl-2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16btetradecahydro-14-methyl-,

Alternate Chemical Name:

(2R,3aS,5aR,5bS,9S,13S,14R,16aS,16bR)-1H-as-Indaceno[3,2-d]oxacyclododecin-7,15-dione, 2-[(6-deoxy-2,3,4-tri-O-methyl-alpha-L-mannopyranosyl)oxy]-13-[[[(2R,5S,6R)-5-(dimethylamino)tetrahydro-6-methyl-2H-pyran-2-yl]oxy]-9-ethyl-2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16btetradecahydro-4,14-dimethyl-, (2S,3aR,5aS,5bS,9S,13S,14R,16aS,16bS)-

Section 4 - First Aid Measures**TREATMENT:**

If swallowed:	If conscious, give the patient plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a physician immediately.
If inhaled:	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
If on skin:	Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing immediately. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
If in eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists, get medical attention or advice.

Section 5 - Fire Fighting Measures

Flash point	None
Lower explosion limit	Not known
Upper explosion limit	Not known
Suitable extinguishing media:	Water, Carbon Dioxide (CO ₂), Dry Chemical
Unsuitable extinguishing media:	None known
Unusual Fire and Explosion Hazards:	None known
Fire fighting precautions:	Hazardous decomposition products formed under fire conditions.
Hazchem code:	3Z

Section 6 - Accidental Release Measures

Protective clothing and equipment:	Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions).
Environmental precautions:	Prevent further migration into the environment. Do not allow material to enter waterways.
Procedure:	Use absorbent/adsorbent material to solidify liquids. Clean up promptly by sweeping or vacuum.

Emergency response assistance: For specialist advice in an emergency call 0800 CHEMCALL (0800 243 622) and Elanco Animal Health for assistance

Section 7 - Handling and Storage

Storage instructions: Store below 30°C in a dry place in a tightly closed container. Do not freeze. Keep out of reach of children.

Handling precautions: Wash hands and exposed skin thoroughly after handling. Wear eye and face protection.

Emergency response plan required: When held in quantities of 1000L or more

Emergency containment required: When held in quantities of 1000L or more

Signage required: When held in quantities of 100L or more

Approved Handler: Not required

Packaging requirements: Packing group III

Section 8 - Exposure Controls / Personal Protection

Exposure limits or guidelines: Spinosad: Supplier: TWA 0.3 mg/m³
Propylene glycol: AIHA: TWA 10 mg/m³

Engineering measures: Laboratory fume hood or local exhaust ventilation.

Personal protective equipment: When mixing and handling, use protective clothing, safety glasses, impervious gloves, and dust respirator.

Section 9 - Physical and Chemical Properties

Appearance: Blue, clear, low viscosity aqueous suspension

Physical state: Liquid

Odour: Earthy

pH: 4.0 – 4.1

Boiling point: Not known

Freezing point: Not known

Solubility: Soluble

Specific Gravity: 1.023

Flammability: Not flammable

Section 10 - Stability and Reactivity

Stability: Stable at normal temperatures and pressures

Conditions to avoid: None known

Incompatible materials: Avoid strong oxidising agents

Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions
Hazardous reactions	Hazardous polymerisation does not occur

Section 11 - Toxicological Information

No data available for mixture. Data for ingredients or related materials are presented.

Acute oral toxicity	Spinosad :	LD ₅₀ (male rat) 4444 mg/kg LD ₅₀ (female rat) >5000 mg/kg LDLo (dog) >400 mg/kg
Acute inhalation toxicity	Spinosad :	LC ₅₀ (rat) >5180 mg/m ³ (4 h)
	Propylene glycol :	Dog; 313 g/m ³ to 627 g/m ³ for 15 minutes, no deaths or toxicity
	Dimethylsiloxane :	LC ₅₀ (rabbit) 978 g/m ³ for 7.5 hours, no deaths
Acute dermal toxicity	Spinosad :	LD ₅₀ (rabbit) >5000 mg/kg
Skin irritation	Spinosad :	Rabbit ; no irritation
Eye irritation	Spinosad pour-on:	Rabbit ; severe irritant (reversible)
Sensitisation	Spinosad pour-on :	Guinea pig ; Did not cause sensitisation on laboratory animals
Repeated dose 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.
	Propylene glycol :	Kidney effects (decreased weight, tissue changes)

Carcinogenicity	Spinosad :	Animal testing did not show any carcinogenic effects
	Propylene glycol :	Animal testing did not show any carcinogenic effects
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.
	Polydimethylsiloxane:	No effects identified in limited animal studies.
Mutagenicity	Spinosad :	Not mutagenic in bacterial or mammalian cells.
	Polyethylene glycol:	In-vitro mutagenicity studies were negative. Animal mutagenicity studies were negative.
	Polydimethylsiloxane:	Not mutagenic in bacterial or mammalian cells.

Section 12 - Ecological Information

No data available for mixture. Data for ingredients or related materials are presented.

Toxicity to fish	Spinosad :	LC ₅₀ / 96h / Lepomis macrochirus : 5.94 mg/L LC ₅₀ / 96h / Oncorhynchus mykiss : 30 mg/L
Toxicity to algae	Spinosad :	EC ₅₀ / Pseudokirchneriella subcapitata: >105.5 ppm EC ₅₀ / Navicula sp.: 0.107 mg/l
Toxicity to daphnia	Spinosad :	EC ₅₀ / 48 h / Daphnia magna : 92.7 mg/l

Any other relevant information available

Spinosad :	Does not bioconcentrate in aquatic organisms. Not persistent due to photolysis and biodegradation.
Propylene glycol :	Practically non-toxic to aquatic organisms. Not expected to bioconcentrate in aquatic organisms. Expected to be degraded by microorganisms.
Polydimethylsiloxane :	Toxic to aquatic organisms. Not expected to be degraded in water, air or soil by light or microorganisms. Considered persistent in the environment.

Section 13 - Disposal Considerations

Preferably dispose of product by use. Otherwise dispose of product as part of an approved chemical disposal program. Triple rinse empty container. Spread rinsate from container onto waste ground or pasture. Recycle empty rinsed container at an approved recycling centre. Otherwise crush empty container and bury in a suitable landfill. Do not use container for any other purpose.

Section 14 - Transport Information

Land Transport	Classified as dangerous goods for transport under NZ Standard 5433:2007 Transport of Dangerous Goods on Land.
Air Transport	Classified as dangerous goods for transport under International Civil Aviation Organisation and International Air Transport Association regulations
Sea Transport	Classified as dangerous goods for transport under International Maritime Organisation regulations
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (spinosad 2%)
DG Class	9
Subsidiary Risk	N/A
Packing Group	III
HAZCHEM Code	3Z
Marine Pollutant	Yes

The maximum quantity of this substance allowed for carriage on public transport is 1L.

Section 15 - Regulatory Information

Expo is approved pursuant to the ACVM Act 1997 (A10205).
See www.foodsafety.govt.nz for registration conditions.

A Safety Data Sheet must be provided whenever 1L of Expo is sold or supplied.

There is a requirement to keep written records of use of each application of Expo when 3L or more is used within 24 hours in a place. The record must include the name of the product, the date and time of each application, the amount used, the location, and the name of the person using the product. The record must be kept for at least 3 years after the date of use.

Section 16 – Other Information

This SDS is effective as of 20 September 2011.

Sections updated or revised:

Formatting of entire document. ACVM website updated. Transport information updated.

Due for revision within 5 years.

Further information

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 MERCHANTABILITY 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
0800 352 626