



## Extinosad

Effective Date: 20 September 2011

### Section 1 – Identification of the substance and supplier

<b>Product Name:</b>	Extinosad
<b>Manufacturer's Product Code:</b>	AH0492
<b>UN number:</b>	UN 3082
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (spinosad 2.5%)
<b>Pack Size:</b>	5L, 10L
<b>Recommended use:</b>	Dipping and jetting insecticide for the treatment of lice and flies 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](http://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.

Extinosad is approved pursuant to the HSNO Act 1996, HSR001884. The EPA website [www.epa.govt.nz](http://www.epa.govt.nz) should be consulted for the full list of triggered controls and cited regulations.

<b>HSNO Classifications:</b>	6.9B Target Organ Toxin 9.1B Aquatic ecotoxin 9.4A Terrestrial invertebrate ecotoxin
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**Signal word:** WARNING

**Hazard Statements:** 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:** Do not breathe mist or spray  
Get medical advice if you feel unwell  
Avoid release to the environment  
Collect spillage  
Read label before use  
Keep out of reach of children

### Section 3 - Composition / Information on Ingredients

Chemical Name	CAS-No.	Concentration [%]
Spinosad	168316-95-8	2.46
Spinosyn A	131929-60-7	NA
Spinosyn D	131929-63-0	NA
Propylene Glycol	57-55-6	10
Excipients not contributing to a hazard	NA	10.25
Water	7732-18-5	77.29

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-, (2R,3aS,5aR,5bS,9S,13S,14R,16aS,16bR)-

Alternate Chemical Name: 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

If inhaled:	drink. Never give anything by mouth to an unconscious person. Call a physician immediately. 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:	Immediately flush eye(s) with plenty of water. Obtain medical attention.

### **Section 5 - Fire Fighting Measures**

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

### **Section 6 - Accidental Release Measures**

<b>Protective clothing and equipment:</b>	Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions).
<b>Environmental precautions:</b>	Prevent further migration into the environment. Do not allow material to enter waterways.
<b>Procedure:</b>	Use absorbent/adsorbent material to solidify liquids. Clean up promptly by sweeping or vacuum.
<b>Emergency response assistance:</b>	For specialist advice in an emergency call 0800 CHEMCALL (0800 243 622) and Elanco Animal Health for assistance

### **Section 7 - Handling and Storage**

<b>Storage instructions:</b>	Store below 30°C in a dry place in a tightly closed container. Do not freeze. Do not store in direct sunlight. Keep out of reach of children.
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<b>Handling precautions:</b>	Wash hands and exposed skin thoroughly after handling. Do not breathe mist or spray.
<b>Emergency response plan required:</b>	When held in quantities of 1000L or more
<b>Emergency containment required:</b>	When held in quantities of 1000L or more
<b>Signage required:</b>	When held in quantities of 100L or more
<b>Approved Handler:</b>	Not required
<b>Packaging requirements:</b>	Packing group III

### **Section 8 - Exposure Controls / Personal Protection**

<b>Exposure limits or guidelines:</b>	Spinosad: Supplier: TWA 0.3 mg/m <sup>3</sup>
<b>Engineering measures:</b>	Propylene glycol: AIHA: TWA 10 mg/m <sup>3</sup> Laboratory fume hood or local exhaust ventilation.
<b>Personal protective equipment:</b>	When mixing and handling, use protective clothing, safety glasses, impervious gloves, and dust respirator.

### **Section 9 - Physical and Chemical Properties**

<b>Appearance:</b>	Tan to grey coloured aqueous suspension
<b>Physical state:</b>	Liquid
<b>Odour:</b>	Latex paint
<b>pH:</b>	7.3 -8.7
<b>Boiling point:</b>	Not known
<b>Freezing point:</b>	Not known
<b>Solubility:</b>	Soluble
<b>Specific Gravity:</b>	1.01 – 1.04 at 20°C
<b>Flammability:</b>	Not flammable

### **Section 10 - Stability and Reactivity**

<b>Stability:</b>	Stable under normal conditions of use
<b>Conditions to avoid:</b>	None known
<b>Incompatible materials:</b>	Avoid strong oxidising agents
<b>Hazardous decomposition products:</b>	Hazardous decomposition products formed under fire conditions
<b>Hazardous reactions</b>	Hazardous polymerisation does not occur

### **Section 11 - Toxicological Information**

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

<b>Acute oral toxicity</b>	Spinosad :	LD <sub>50</sub> (male rat) 4444 mg/kg
		LD <sub>50</sub> (female rat) >5000 mg/kg
		LDLo (dog) >400 mg/kg

<b>Acute inhalation toxicity</b>	Spinosad :	LC <sub>50</sub> (rat) >5180 mg/m <sup>3</sup> (4 h)
<b>Acute dermal toxicity</b>	Spinosad :	LD <sub>50</sub> (rabbit) >5000 mg/kg
<b>Skin irritation</b>	Spinosad :	Rabbit ; no irritation
<b>Eye irritation</b>	Spinosad :	Rabbit ; slight irritation
<b>Sensitisation</b>	Spinosad :	Guinea pig ; Did not cause sensitisation on laboratory animals
<b>Repeated dose 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.
<b>Carcinogenicity</b>	Spinosad :	Animal testing did not show any carcinogenic effects
	Propylene glycol :	Animal testing did not show any carcinogenic effects
<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.
<b>Mutagenicity</b>	Spinosad :	Result in genetic toxicity assays (in vitro and in vivo): Negative

## Section 12 - Ecological Information

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

<b>Toxicity to fish</b>	Spinosad :	LC <sub>50</sub> / 96h / <i>Lepomis macrochirus</i> : 5.94 mg/L
		LC <sub>50</sub> / 96h / <i>Oncorhynchus mykiss</i> : 30 mg/L
<b>Toxicity to algae</b>	Spinosad :	EC <sub>50</sub> / <i>Pseudokirchneriella subcapitata</i> : >105.5 ppm
		EC <sub>50</sub> / <i>Navicula</i> sp.: 0.107 mg/l
<b>Toxicity to daphnia</b>	Spinosad :	EC <sub>50</sub> / 48 h / <i>Daphnia magna</i> : 92.7 mg/l
<b>Any other relevant information available</b>	Spinosad :	Does not bioconcentrate in aquatic organisms. Not persistent due to photolysis and biodegradation.

## 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. Add rinsate to dip wash. 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**

<b>Land Transport</b>	Classified as dangerous goods for transport under NZ Standard 5433:2007 Transport of Dangerous Goods on Land.
<b>Air Transport</b>	Classified as dangerous goods for transport under International Civil Aviation Organisation and International Air Transport Association regulations
<b>Sea Transport</b>	Classified as dangerous goods for transport under International Maritime Organisation regulations
<b>UN Number</b>	UN 3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (spinosad 2.5%)
<b>DG Class</b>	9
<b>Subsidiary Risk</b>	-
<b>Packing Group</b>	III
<b>HAZCHEM Code</b>	3Z
<b>Marine Pollutant</b>	Yes

**Section 15 - Regulatory Information**

Extinosad is approved pursuant to the ACVM Act 1997 (A8206)  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

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

**Section 16 – Other Information**

This SDS is effective as of 20 September 2011.

**Sections updated or revised:** Formatting of entire document. ACVM website 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