Issue date: 24-September-2015 Revision date: 23-August-2017 Supersedes date: 28-June-2017 Version number: 02



SAFETY DATA SHEET

1. Identification

Product identifier Elanco AH0493 Extinosad Pour-On for Sheep

Other means of identification

Spinosad pour-on for sheep and cattle * Spinosad formulation * 232105 formulation **Synonyms**

AH0493 **Item Code**

Recommended use of the chemical and restrictions on use

Recommended use Veterinary Product Not available. Restrictions on use

Details of manufacturer or importer

Company name Elanco Australasia Pty Ltd.

ACN: 076 745 198

Address 112 Wharf Road

West Ryde, NSW 2114

Australia

Telephone 1800 226 324 (toll free) lilly msds@lilly.com e-mail

Emergency phone number Elanco Australasia 1800 226 324 (toll free)

24 hr emergency contact

CHEMWATCH 1800 039 008 (spills and accidents)

24 hr emergency contact

number (Local)

CHEMWATCH +61 2 9186 1132 (spills and accidents)

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A **Environmental hazards** Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 2

Label elements, including precautionary statements

Hazard symbol(s)



Exclamation Environment mark

Signal word Warning

Hazard statement(s) Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention Wear eye/face protection. Wash hands thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Not available. Storage **Disposal** Not available. Other hazards which do not result in classification

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Spinosad	168316-95-8	2
Propylene glycol	57-55-6	20
Trimethylnonanol Polyethylene Glycol	60828-78-6	10
Lactic acid	50-21-5	0.5

Composition comments

Spinosad is a mixture of the following components: Spinosyn A (CAS# 131929-63-0) and Spinosyn

D (CAS# 131920-60-7).

Remaining components of this product are non-hazardous and/or are present at concentrations

below reportable levels.

4. First-aid measures

Description of necessary first aid measures

Move to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, provide Inhalation

artificial respiration assistance (mouth-to-mouth) and call a physician immediately.

Skin contact Wash off with soap and plenty of water. Take off contaminated clothing and wash before reuse.

Get medical attention if irritation develops and persists.

Eye contact 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 immediately.

If conscious, give the victim plenty of water to drink. Never give anything by mouth to a victim who Ingestion

is unconscious or is having convulsions. Call a physician or poison control centre immediately. In the case of accident or if you feel unwell, seek medical advice immediately (show the label

Personal protection for first-aid

responders

where possible).

Symptoms caused by exposure Causes serious eye irritation.

Medical attention and special

treatment

Treat symptomatically.

Not available.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Water. Carbon dioxide (CO2). Dry chemicals.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment

and precautions for fire

fighters

Wear self-contained breathing apparatus and protective clothing.

Hazchem Code 3*Z*

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with skin, eyes and clothing. Wear suitable protective clothing, gloves and eye/face protection. See Section 8 for personal protective equipment. See Section 8 of the SDS for

Personal Protective Equipment.

For emergency responders Use personal protection recommended in Section 8 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground. Prevent spilled material from

flowing onto adjacent land or into streams, ponds, or lakes.

Material name: Elanco AH0493 Extinosad Pour-On for Sheep 4890

Methods and materials for containment and cleaning up Small Spillages:

Use absorbent/adsorbent material to solidify liquids. Sweep up or vacuum up spillage and collect in suitable container for disposal.

Large Spillages:

Prevent further migration into the environment. Use absorbent/adsorbent material to solidify liquids. Remove sources of ignition. Local authorities should be advised if significant spillages cannot be contained. Large spills due to traffic accidents, etc., should be reported immediately to

CHEMWATCH and Elanco Animal Health for assistance.

Other issues relating to spills and releases

Clean up in accordance with all applicable regulations.

7. Handling and storage

Precautions for safe handling Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Keep away

from heat and sources of ignition. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames and high temperatures. Avoid contact with oxidising

agents. Do not store in open or unlabelled containers.

Storage temperature: between 10 °C (50 °F) and 40 °C (104 °F).

8. Exposure controls and personal protection

Control parameters

Occ

Components	Туре	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m3	Total vapour and particulates.
,		10 mg/m3	Particulate.
		150 ppm	Total vapour and
			particulates.
Australia. OELs. (Adopted Environment)	I National Exposure Standards for Atmo	ospheric Contaminants in th	e Occupational
Components	Туре	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m3	Total vapour and particulates.
		10 mg/m3	Particulate.
		150 ppm	Total vapour and particulates.
			particulates.
UK. EH40 Workplace Expo	osure Limits (WELs)		particulates.
	osure Limits (WELs) Type	Value	Form
Components Propylene glycol (CAS	• •	Value 474 mg/m3	•
Components Propylene glycol (CAS	Туре		Form Total vapour and
Components	Туре	474 mg/m3	Form Total vapour and particulates.
Propylene glycol (CAS 57-55-6)	Туре	474 mg/m3 10 mg/m3 150 ppm	Form Total vapour and particulates. Particulate. Total vapour and
Propylene glycol (CAS	Type TWA	474 mg/m3 10 mg/m3 150 ppm r the ingredient(s).	Form Total vapour and particulates. Particulate. Total vapour and particulates.

Individual protection measures, for example personal protective equipment (PPE)

Wear goggles/face shield. (AS/NZS 1337) Eye/face protection

Skin protection

Chemical resistant gloves. (AS 2161) Hand protection

Other Chemical-resistant gloves and impermeable body covering to minimize skin contact.

Respiratory protection Select appropriate respirator for physical characteristics of material. Select respirator with

appropriate protection factor. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the respirator. (AS/NZS

1715)

Thermal hazards Not available.

Use good industrial hygiene practices in handling this material. Hygiene measures

> 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 (recommended). 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 and chemical properties

Appearance Clear. low viscosity liquid

Physical state Liquid. Form Liquid. Colour Blue Odour Earthy

Odour threshold Not available.

4 - 4 1

Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

> 62.0 °C (> 143.6 °F) Pensky-Martens Closed Cup Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available. Not available.

Explosive limit - upper (%)

Vapour pressure

Not available. Vapour density Not available. Not available. Relative density

Solubility(ies)

Soluble Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

Other physical and chemical parameters

Explosive properties Not explosive

Oxidising properties The substance or mixture is not classified as oxidizing.

Specific gravity 1.023

10. Stability and reactivity

Reactivity Not water reactive.

Chemical stability Material is stable under normal conditions. Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Conditions to avoid

None known.

Incompatible materials

Strong oxidising agents.

Hazardous decomposition

products

Fire or excessive heat may produce hazardous decomposition products.

11. Toxicological information

Acute toxicity Based on available data, the classification criteria are not met.

Product Species Test results

Elanco AH0493 Extinosad Pour-On for Sheep

Acute Dermal

Derma

Liquid

LD50 Rabbit > 1000 mg/kg

Oral

Liquid

LD50 Rat > 5000 mg/kg
Components Species Test results

Lactic acid (CAS 50-21-5)

Acute Dermal

LD50 Rabbit > 2000 mg/kg No Mortality

Inhalation

LC50 Rat > 7.94 mg/l, 4 h

Oral

LD50 Rat 3543 - 4936 mg/kg

Propylene glycol (CAS 57-55-6)

<u>Acute</u>

Dermal

LD50 Rabbit 22 g/kg

Oral

LD50 Rat 20.8 g/kg

Spinosad (CAS 168316-95-8)

Acute

Dermal

LD Rabbit > 5000 mg/kg

Inhalation

LC50 Rat > 5180 mg/m3, 4 hours

Oral

LD50 Rat > 2000 mg/kg

Trimethylnonanol Polyethylene Glycol (CAS 60828-78-6)

<u>Acute</u>

Dermal

LD50 Rabbit 8874 mg/kg

Oral

LD50 Rat 3300 mg/kg

Skin corrosion/irritation Rabbit: No irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation Rabbit: Severe eye irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Due to lack of data the classification is not possible.

Skin sensitisation Guinea pig: Did not cause sensitization on laboratory animals.

Based on available data, the classification criteria are not met.

In vitro and in vivo tests did not show mutagenic effects. (Spinosad) (Propylene Glycol) Germ cell mutagenicity

(Polydimethylsiloxane)

Based on available data, the classification criteria are not met.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

No effects identified in animal studies. (Spinosad) (Propylene Glycol)

Based on available data, the classification criteria are not met.

In laboratory animal studies, effects on reproduction have been seen only at doses that produced Reproductive toxicity

> significant toxicity to the parent animals. (Spinosad) No effects identified in animal studies. (Propylene Glycol) Based on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

Due to lack of data the classification is not possible.

Specific target organ toxicity repeated exposure

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. (Spinosad)

Based on available data, the classification criteria are not met.

Aspiration hazard Due to lack of data the classification is not possible.

12. Ecological information

Toxic to aquatic life with long lasting effects. **Ecotoxicity**

Components		Species	Test results
Lactic acid (CAS 50-21-5)			
Acute			
Other	EC50	Selenastrum capricornutum (new name Pseudokirchnerella subca	3500 mg/l, 72 h
Chronic			
Other	NOEC	Selenastrum capricornutum (new name Pseudokirchnerella subca	1900 mg/l, 72 h
Aquatic			
Acute			
Fish	LC50	Oncorhynchus mykiss	130 mg/l, 96 h
Chronic			
Fish	LOEC	Fish	2.18 mg/l, 90 d
Propylene glycol (CAS 57-55-	6)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	43500 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51600 mg/l, 96 hours
Spinosad (CAS 168316-95-8)			
	ErC50	Navicula pelliculosa	0.079 mg/l, 120 h (static)
	NOEC	Navicula pelliculosa	0.036 mg/l
Aquatic			
Algae	NOEC	Duckweed (Lemna minor)	1.4 mg/l
Crustacea	EC50	Daphnia	7.37 mg/l, 48 h
		Water flea (Daphnia magna)	> 1 mg/l, 48 h (static)
	NOEC	Water flea (Daphnia magna)	0.0012 mg/l, 21 days (flow thorugh)
Fish	LC50	Carp (Cyprinus carpio)	4.5 mg/l, 96 h (flow through)
	NOEC	Oncorhynchus mykiss	0.5 mg/l Early life-stage (flow through)
		, ,	3 - 7 3 - (

Components **Species Test results**

Trimethylnonanol Polyethylene Glycol (CAS 60828-78-6)

Aquatic

Acute

Crustacea LC50 Daphnia magna 81.2 mg/l, 48 h Fish LC50 39 mg/l, 96 h Fish

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient

n-octanol / water (log Kow)

-0.72 Lactic acid -0.92 Propylene glycol

Mobility in soil Not available.

Other adverse effects Highly Toxic to honey bees, oysters and diatoms. Moderately toxic to fish and aquatic

invertebrates. No more than slightly to practically non-toxic to birds. Practically non-toxic to green algae. No volatility expected. Does not bioconcentrate in aquatic organisms. Not persistent due to

photolysis and biodegradation. (Spinosad)

13. Disposal considerations

Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in **Disposal instructions**

accordance with local/regional/national/international regulations.

14. Transport information

Effective January 1, 2015 by Special Provision, UN3077 and UN3082 when packaged in inner **General information**

packages of 5L / 5 KG or less are not subject to the dangerous goods regulations.

ADG

UN number 3082

UN proper shipping name Transport hazard class(es)

Environmentally hazardous substance, liquid, n.o.s. (SPINOSAD)

Class 9 Subsidiary risk Ш **Packing group Environmental hazards** Yes •37 **Hazchem Code**

Special precautions for user Not available.

Not classified as dangerous goods when transported by road or rail in packaging or receptacles not exceeding 500 kg (L)

according to ADG 7 SP AU01.

RID

UN number

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Spinosad)

Transport hazard class(es)

9 Class Subsidiary risk 9 Label(s) Ш **Packing group Environmental hazards** Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Spinosad)

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** Yes **ERG Code** 91

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Cargo aircraft only

Allowed with restrictions.

Allowed with restrictions.

IMDG

3082 UN number

UN proper shipping name Transport hazard class(es) Environmentally hazardous substance, liquid, n.o.s. (Spinosad)

Class 9 Subsidiary risk Ш **Packing group**

Environmental hazards

Marine pollutant Yes F-A, S-F

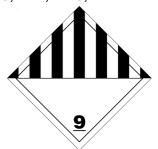
EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not available.

the IBC Code

ADG; IATA; IMDG; RID



Marine pollutant



15. Regulatory information

Safety, health and environmental regulations

APVMA approval number 60117 **National regulations**

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Propylene glycol (CAS 57-55-6)

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Propylene glycol (CAS 57-55-6)

10000 - $99999\ TONNES$ See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes

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).

16. Other information

Country(s) or region

Issue date24-September-2015Revision date23-August-2017

Key abbreviations or acronyms

used

TWA: Time Weighted Average

Inventory name

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 0011+1-877-352-6261 0011+1-800-428-4441

Revision informationThis document has undergone significant changes and should be reviewed in its entirety.

On inventory (yes/no)*