Issue date: 28-September-2015 Revision date: 31-March-2016 Supersedes date: 03-February-2016

Version number: 03



# SAFETY DATA SHEET

## 1. Identification

Product identifier

Elanco AF0374 Surmax 200 Avilamycin Premix

Other means of Identification

**Synonyms** 

Avilamycin Premix \* Maxus \* Kavault \* Surmax Premix

**Item Code** 

AF0375, AF0369, AF0374

Recommended use of the chemical and restrictions on use

Recommended use

**Veterinary Product** 

Restrictions on use

Not available.

**Details of manufacturer or importer** 

Manufacturer

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)

**Emergency phone** 

lilly\_msds@lilly.com Elanco Australasia 1800 226 324 (toll free)

number

e-mail

24 hr emergency contact

number

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

# 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 as amended

#### **Health hazards**

Serious eye damage/eye irritation

Category 2A

Causes serious eye irritation.

Sensitization, respiratory

Category 1

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** 

Avilamycin, Excipient: Grain Dust

**Hazard pictograms** 



Signal word

**Hazard statements** 

Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

**Precautionary statements** 

Prevention

Avoid breathing dust, Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory

protection.

Material name: Elanco AF0374 Surmax 200 Avilamycin Premix 4305

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Response IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

CAS aurelean and

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Not available.

Disposal Disposa of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

None.

2.3. Other hazards None known.

## 3. Composition/information on ingredients

#### **Mixture**

Identity of chemical ingredients	other unique identifiers	ingredients
Avilamycin	11051-71-1	20
[(2R,3S,4R,6S)-6-[(2'R,3'S,3aR,4R,4'R,6S,7aR)-6-[(2S,3R,4R,5S,6R)-2-[(2R,3S,4S,5S,6S)-6-[(2R,3aS,3'aR,6'R,7R,7'S,7aR,7'aR)-7'-acetyl-7'-hydroxy-6'-methyl-7-(2-methylpropanoyloxy)spiro[4,6,7,7a-tetrahydro-3aH-[1,3]dioxolo[4,5-d]py ran-2,4'-6,7a-dihydro-3aH-[1,3]dioxolo[4,5-c]pyran]-6-yl]oxy-4-hydroxy-5-met hoxy-2-(methoxymethyl)oxan-3-yl]oxy-3-hydroxy-5-methoxy-6-methyloxan-4-yl]oxy-4'-hydroxy-2',4,7a-trimethylspiro[3a,4,6,7-tetrahydro-[1,3]dioxolo[5,4-c]pyran-2,6'-oxane]-3'-yl]oxy-4-hydroxy-2-methyloxan-3-yl]3,5-dichloro-4-hydroxy-2-methoxy-6-methylbenzoate		
Excipient: Grain Dust	NA NA	77 - 80
Anti-dusting oil	8012-95-1	<= 3
MINERAL OIL		

**Composition comments** 

Excipients may include: Rice hulls. Soybean mill run.

The anti-dusting oil reduces potential exposure under normal handling conditions of use.

#### 4. First-aid measures

## Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Get medical attention immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation

develops and persists. Take off contaminated clothing and wash before reuse.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove

contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Give several glasses of water. Never give liquid to an unconscious person. Call a physician or poison

control centre immediately.

Personal protection for first-aid responders

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash

contaminated clothing before reuse.

Symptoms caused by

ехроѕиге

Irritating to eyes. Wheezing.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically.

#### 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing

Water fog. Foam. Dry chemicals. Carbon dioxide (CO2).

media

Unsuitable extinguishing None known.

media

the chemical

Specific hazards arising from

Dust may form explosive mixture with air. No ignition up to 2.0 oz/cu ft (2 kg/m3)

Minimum Ignition Temperature of Dust Layer: 200 C

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Special protective equipment

and precautions for fire

fighters

Wear self-contained breathing apparatus and protective clothing.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

**Hazchem Code** 

2X

**Specific methods** 

Use standard firefighting procedures and consider the hazards of other involved materials,

#### 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Avoid inhalation of dust. Wear suitable protective clothing, gloves and eye/face protection. See

Section 8 for personal protective equipment.

For emergency responders

Keep unnecessary personnel away. 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.

Methods and materials for containment and cleaning up

Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist/wet material and remove by mopping or wet wiping. Large spills due to traffic accidents, etc., should be reported immediately to CHEMWATCH and Elanco Animal Health for assistance.

## 7. Handling and storage

Precautions for safe handling

Minimise dust generation and accumulation. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment.

Conditions for safe storage,

including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

# 8. Exposure controls and personal protection

#### **Control parameters**

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# Occupational exposure limits

Material	Туре	Value	
Elanco AF0374 Surmax 200 Avilamycin Premix	TWA (8hrs)	4 mg/m3	
Components	Туре	Value	
Avilamycin (CAS 11051-71-1)	TWA (8hrs)	10 mg/m3	
ACGIH Components	Туре	Value	Form
Excipient: Grain Dust	TWA	4 mg/m3	(grain dust)
United Kingdom Components	Туре	Value	Form
Excipient: Grain Dust	STEL	30 mg/m3	inhalable fraction (grain dust)
	TWA	10 mg/m3	inhalable fraction (grain dust)
ogical limit values	No biological exposure limits noted for t	the ingredient(s).	•

Appropriate engineering

Laboratory fume hood or local exhaust ventilation.

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.

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

Eve/face protection

Wear safety glasses with side shields (or goggles). (AS/NZS 1337)

controls

Skin protection

Chemical resistant gloves. (AS 2161) **Hand protection** 

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

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be Respiratory protection

based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the respirator. Select appropriate respirator for physical characteristics of material. Select

respirator with appropriate protection factor. (AS/NZS 1715)

Thermal hazards

Hygiene measures 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.

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.

## 9. Physical and chemical properties

**Appearance** 

Physical state Solid.

Free flowing material which may contain light colored particles. **Form** 

Colour **Brown** Odour Mustv

No data available. Odour threshold

No data available. Melting point/freezing point No data available. Initial bolling point and

boiling range

No data available. Flash point No data available. **Evaporation rate** No test data available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower No data available.

(%)

Flammability limit -

upper (%)

No data available.

**Explosive limit - lower** 

Explosive limit - upper

No data available.

No data available.

(%)

Vapour pressure **Vapour density** Relative density

No data available. No data available. No data available.

Solubility(les)

Solubility (water)

Insoluble

Partition coefficient (n-octanol/water)

No data available.

**Auto-ignition temperature Decomposition temperature**  No data available. No data available. No data available.

Other physical and chemical parameters

**Density Explosive properties**  No data available. Not explosive

**Flammability** 

No data available.

Viscosity

Molecular weight

No data available.

**Oxidising properties** 

The substance or mixture is not classified as oxidizing.

Thermal hazards

Thermal stability

Not applicable.

VOC

No data available.

# 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Conditions to avoid

Contact with incompatible materials,

**Incompatible materials** 

Strong oxidising agents.

Hazardous decomposition

products

Fire or excessive heat may produce hazardous decomposition products.

# 11. Toxicological information

**General Information** 

Not available.

# 11.1. Information on toxicological effects

Components	Species	Test results	
Avilamycin (CAS 11051-71-1)	· · · · · · · · · · · · · · · · · · ·		
<u>Acute</u>			
Dermal			
LD	Rabbit	> 2000 mg/kg (14.9% formulation)	
Inhalation			
LC50	Rat	> 770 mg/m3, 4 hours (14.9% formulation)	
Oral			
LD	Rat	> 5000 mg/kg (14.9% formulation)	
Skin corrosion/irritation	(14.9% Avilamycin) Rabbit: Slight irritation. Based on available data, the classif	ication criteria are not met.	
Serious eye damage/eye irritation	Rabbit: Irritating to eyes. (14.9 %	Avilamycin) (cleared within 7 days)	
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Allergic reactions in a manufacturing setting have been reported. Did not cause sensitization on laboratory animals. (Avilamycin)		
Skin sensitisation	Allergic reactions in a manufacturing setting have been reported. Did not cause sensitization on laboratory animals. (Avilamycin)  Based on available data, the classification criteria are not met.		
Germ cell mutagenicity		vitro and in vivo): Negative (Avilamycin)	
Carcinogenicity	No effects identified in animal studi		
Reproductive toxicity	No effects identified in animal studies. (Avilamycin)		
Specific target organ toxicity - single exposure	No effects identified in animal studi	es. (Avilamycin)	
Specific target organ toxicity - repeated exposure	No target organ toxicity identified t	hrough animal studies. (Avilamycin)	
Aspiration hazard	No aspiration toxicity classification		
Mixture versus substance information	No information available.		
Other information	Not available.		

# 12. Ecological information

# **Ecotoxicity**

Components		Species	Test results
Avilamycin (CAS 11051-71-1)			
		Audrain (Silty clay loam)	66,5 ml/g Mean Kd (adsorption)
		Mutcher sandy loam, pesticide free (sandy day loam)	143 ml/g Mean Kd (adsorption)
		Raymondville (Sandy day loam)	2.05 ml/g Mean Kd (adsorption)
		Tehama (Loam)	56 ml/g Mean Kd (adsorption)
		Tift (Sand)	3.57 ml/g Mean Kd (adsorption)
Acute		A D. L. L. CAR-Houd doods	200 Edwy (Biston)
	LC50	Anas platyrhynchos (Mallard duck)	> 730 ppm, 5 days (Dietary)
		Colinus virginianus (Quail)	> 660 ppm, 5 days (Dietary)
		Earthworm (Eisenia fetida)	> 100 mg/kg, 14 days
		Oncorhynchus mykiss (rainbow trout)	> 47.8 mg/l, 96 hours
	LD50	Colinus virginianus (Quail)	> 372.5 mg/kg, 5 days
Chronic			. 500 // 74 /
	EC50	Corn (Zea mays)	> 500 mg/kg, 21 days
		Earthworm (Eisenia fetida)	> 1300 mg/kg, 56 days (reproduction
		Oat (Avena sativa)	> 500 mg/kg, 21 days
		Radish (Raphanus sativus)	> 500 mg/kg, 21 days
		Soybean (Glycine max)	> 500 mg/kg, 21 days
		Sugar beet (Beta vulgaris)	> 500 mg/kg, 21 days
		Tomato (Solanum lycopersicon)	> 500 mg/kg, 21 days
	NOEC	Earthworm (Eisenia fetida)	1300 mg/kg, 56 days (reproduction)
Aquatic			
Acute	FCFO	Mater flow (Danhais magna)	> 138 mg/l, 48 hours
Crustacea	EC50	Water flea (Daphnia magna)	<del>-</del>
•	NOEC	Water flea (Daphnia magna)	138 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 35.4 mg/l, 96 hours
ersistence and degradability		available on the degradability of this product	t.
Bloaccumulative potential	No data a	valiable.	
Partition coefficient n-octanol / water (log			
<b>Kow)</b> Avilamycin		0.681 Shake flask me	thod. (pH 9)
Aviantycin		2.55 Shake flask meth	
	3.97 Shake flask method, (pH 4.5)		
Bloconcentration factor (BCF)			
Avilamycin		15	
Mobility In soil	Not available.  No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation		
ther adverse effects	no otner a potential,	adverse environmental effects (e.g. ozone de endocrine disruption, global warming potenti	al) are expected from this component.
cotoxicological Properties	•		
Drinking Water			
Components	Test results		
Avilamycin		6.6 mg/l, (Lilly Aqua	ttic Exposure Guideline)

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#### **Chronic Exposure of Aquatic Organisms**

Components	Test results
Avilamycin 2.4 mg/l, (Lilly Aquatic Exposure Guideline)	
Acute Exposure of Aquatic Organisms	- · · · · · · · · · · · · · · · · · · ·
Components	Test results
Avilamycin	12 mg/l, (Lilly Aquatic Exposure Guideline)

## 13. Disposal considerations

**Disposal methods** 

Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### 14. Transport information

**ADG** 

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## 15. Regulatory information

Safety, health and environmental regulations

**National regulations** 

APVMA approval number 62195

Poison Schedule 4

#### Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

## Australia Medicines & Polsons Appendix B

Poisons schedule number not allocated.

## Australia Medicines & Polsons Appendix C

Poisons schedule number not allocated.

## 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 & Polsons Appendix K

Poisons schedule number not allocated.

#### Australia Medicines & Polsons Schedule 2

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 4

Avilamycin (CAS 11051-71-1)

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)** 

Not listed

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)

applies to all preparations in any concentration Exception may

apply, see the regulation for relevance.

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	No

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Country(s) or region

**Inventory name** 

On inventory (yes/no)\*

**Philippines** 

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Nο

\*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

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the

Not available.

classification of mixture Full text of any statements or

R36 Irritating to eyes.

R-phrases and H-statements

R37 Irritating to respiratory system.

under Sections 2 to 15

R42 May cause sensitisation by inhalation.

R65 Harmful: may cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Causes serious eye irritation.

Causes eye irritation.

**Lilly Lab Code** 

Health: 2 Fire: 1 Reactivity: 0 Special 1: A

**Revision information** 

Physical & Chemical Properties: Multiple Properties

Regulatory Information: Lilly Lab Codes

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