SAFETY DATA SHEET

1. Identification

Product identifier Inteprity

Other means of identification

Synonyms 10% Avilamycin Premix Veterinary Product Recommended use **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information Elanco Animal Health **Company Name** 2500 Innovation Way

US

Phone: 1-877-Elanco1 (1-877-352-6261)

Elanco Product Technical Support / Human or Animal Exposure Reporting: **Emergency Telephone:**

1-888-545-5973

Greenfield, IN 46140

Email: elanco_sds@elanco.com CHEMTREC: 1-800-424-9300 **Transportation Emergency** (Outside U.S. 1-703-527-3887) Telephone:

2. Hazard(s) identification

Physical hazards Not classified.

Category 2B **Health hazards** Serious eye damage/eye irritation

> Sensitization, respiratory Category 1

OSHA defined hazards Combustible dust

Label elements



Signal word Danger

Hazard statement

May form combustible dust concentrations in air.

Causes eye irritation. H320

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

Precautionary statement

Prevention

Avoid breathing dust. P261

Wash hands thoroughly after handling. P264

Wear protective gloves/protective clothing/eye protection/face protection. P280

In case of inadequate ventilation wear respiratory protection. P285

Response

P304 + P340 P305 + P351 + IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P338

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

P337 + P313 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P342 + P311

Storage Not available.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Material name: Inteprity SDS US 1/8 Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Avilamycin	[(2R,3S,4R,6S)-6-[(2'R,3'S,3aR,4R,4'R,6 S,7aR)-6-[(2S,3R,4R,5S,6R)-2-[(2R,3S,4 S,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-tetrah ydro-3aH-[1,3]dioxolo[4,5-d]pyran-2,4'-6,7 a-dihydro-3aH-[1,3]dioxolo[4,5-c]pyran]-6-yl]oxy-4-hydroxy-5-methoxy-2-(methoxym ethyl)oxan-3-yl]oxy-3-hydroxy-5-methoxy-6-methyloxan-4-yl]oxy-4'-hydroxy-2',4,7a-t rimethylspiro[3a,4,6,7-tetrahydro-[1,3]diox olo[5,4-c]pyran-2,6'-oxane]-3'-yl]oxy-4-hy droxy-2-methyloxan-3-yl]3,5-dichloro-4-hy droxy-2-methoxy-6-methylbenzoate	11051-71-1	10
Excipient: Grain Dust		NA	87 - 90
Anti-dusting oil	MINERAL OIL	8012-95-1	<= 3

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

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

Do not rub eyes. 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 center immediately.

Irritating to eyes. Wheezing.

Most important

symptoms/effects, acute and

delayed

medical attention and special

Provide general supportive measures and treat symptomatically.

treatment needed **General information**

Indication of immediate

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.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemicals. Carbon dioxide (CO2). Apply extinguishing media carefully to

avoid creating airborne dust.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Dust may form explosive mixture with air.

Special protective equipment and precautions for firefighters

apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

Specific methods

equipment/instructions

Fire fighting

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

Wear self-contained breathing apparatus and protective clothing. Self-contained breathing

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust. Wear suitable protective clothing, gloves and eye/face protection. See Section 8 of the SDS for Personal Protective Equipment.

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 CHEMTREC and Elanco Animal Health for assistance.

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.

7. Handling and storage

Precautions for safe handling

Minimize 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/personal protection

Occupational exposure limits

U.S OSHA Components	Type	Value	Form
Excipient: Grain Dust	TWA	10 mg/m3	(grain dust)
US. OSHA Table Z-1 Limits for Air Components	Contaminants (29 CFR 1910.1000 Type) Value	Form
Anti-dusting oil (CAS 8012-95-1)	PEL	5 mg/m3	Mist.
ACGIH Components	Туре	Value	Form
Excipient: Grain Dust	TWA	4 mg/m3	(grain dust)
US. ACGIH Threshold Limit Value Components	s Type	Value	Form
Anti-dusting oil (CAS 8012-95-1)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Chen Components	nical Hazards Type	Value	Form
Anti-dusting oil (CAS 8012-95-1)	STEL	10 mg/m3	Mist.
,	TWA	5 mg/m3	Mist.
Lilly (LEG) Material	Туре	Value	
Inteprity	TWA (8hrs)	4 mg/m3	
Elanco OEL Components	Туре	Value	
Avilamycin (CAS 11051-71-1)	TWA (8hrs)	10 mg/m3	

Biological limit values Appropriate engineering

No biological exposure limits noted for the ingredient(s).

Laboratory fume hood or local exhaust ventilation.

controls

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, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

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Skin protection

Hand protection Chemical resistant gloves.

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

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

be 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.

Thermal hazards Not available.

General hygiene considerations

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.

Form Free flowing material which may contain light colored particles.

Color Brown Odor Musty

Odor threshold No data available.

PH 6 - 8

Melting point/freezing point No data available.

Initial boiling point and boiling No data available.

range

Flash point No data available.

Evaporation rate No data available.

Flammability (solid, gas) No test data available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

No data available.

Flammability limit - upper

(%)

No data available.

Explosive limit - lower (%) No data available.

Explosive limit - upper (%) No data available.

Vapor pressure No data available.

Vapor density No data available.

Relative density No data available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature

No data available.

Pecomposition temperature

No data available.

No data available.

Other information

DensityNo data available.Explosive propertiesNot explosive.FlammabilityNo data available.Molecular weightNo data available.

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

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Thermal hazards

Not applicable. Thermal stability 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 Hazardous polymerization does not occur.

reactions

Conditions to avoid Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimize dust

generation and accumulation.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition Fire or excessive heat may produce hazardous decomposition products.

products

11. Toxicological information

Information on toxicological effects

Acute toxicity

Species	Test Results
Rabbit	> 2000 mg/kg (14.9% formulation)
Rat	> 770 mg/m3, 4 hours (14.9% formulation)
Rat	> 5000 mg/kg (14.9% formulation)
	Rabbit

Skin corrosion/irritation (14.9% Avilamycin)

Rabbit: Slight irritation.

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

Serious eye damage/eye

irritation

Rabbit: Irritating to eyes. (14.9 % Avilamycin) (cleared within 7 days)

Respiratory or skin sensitization

Respiratory sensitization 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 sensitization 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 Result in genetic toxicity assays (in vitro and in vivo): Negative (Avilamycin)

No effects identified in animal studies. (Avilamycin) Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Anti-dusting oil (CAS 8012-95-1) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity No effects identified in animal studies. (Avilamycin) Specific target organ toxicity -No effects identified in animal studies. (Avilamycin) single exposure

Specific target organ toxicity -

repeated exposure

No target organ toxicity identified through animal studies. (Avilamycin)

No aspiration toxicity classification Aspiration hazard

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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 clay loam)	143 ml/g Mean Kd (adsorption)		
		Raymondville (Sandy clay 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					
	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					
	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					
Crustacea	EC50	Water flea (Daphnia magna)	> 138 mg/l, 48 hours		
	NOEC	Water flea (Daphnia magna)	138 mg/l, 48 hours		
Fish	LC50	Bluegill (Lepomis macrochirus)	> 35.4 mg/l, 96 hours		
ersistence and degradability	No data is a	available on the degradability of this product.			
oaccumulative potential	No data ava	ailable.			
Partition coefficient n-octa	nol / water (lo	• ,			
Avilamycin		0.681 Shake flask method, (pH 9) 2.55 Shake flask method, (pH 7)			
			3.97 Shake flask method, (pH 4.5)		
Bioconcentration factor (B	CF)	45			
Avilamycin	No data ava	15			
obility in soil ther adverse effects	No data available.				
iner auverse enecis	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.				
cotoxicological Properties		-			
Drinking Water					
Components	Test Results				
Avilamycin		6.6 mg/l, (Lilly Aquat	ic Exposure Guideline)		
Chronic Exposure of Aqua	itic Organisms	:			

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Components Test Results

Avilamycin 12 mg/l, (Lilly Aquatic Exposure Guideline)

13. Disposal considerations

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

accordance with local/regional/national/international regulations.

14. Transport information

DOT

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

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

CERCLA/SARA Hazardous Substances - Not applicable.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulationsCalifornia Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Anti-dusting oil (CAS 8012-95-1)

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)No

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Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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

16. Other information, including date of preparation or last revision

 Issue date
 02-03-2016

 Revision date
 03-27-2019

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country(s).

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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 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

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