Elanco

SAFETY DATA SHEET

1. Identification

Product identifier Surolan

Other means of identification

Item Code CA0813

Recommended use Veterinary Pharmaceutical

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information
Company Name Elanco Animal Health

2500 Innovation Way Greenfield, IN 46140

US

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

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

1-888-545-5973

Email: elanco_sds@elanco.com

Transportation Emergency Telephone:CHEMTREC: 1-800-424-9300 (Outside U.S. 1-703-527-3887)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Germ cell mutagenicity Category 2

Reproductive toxicity Category 1B

Reproductive toxicity Effects on or via lactation

Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement

H341 Suspected of causing genetic defects.
H360 May damage fertility or the unborn child.
H362 May cause harm to breast-fed children.
H304 May be fatal if swallowed and enters airways.

Precautionary statement

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist/vapors.

P263 Avoid contact during pregnancy and while nursing.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Material name: Surolan SDS US

Storage

Store locked up. P405

Disposal

P501

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

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	%
Liquid Paraffin		64742-56-9	96.38
Miconazole nitrate	1H-Imidazole, 1-[2-(2,4-dichlorophenyl)-2-[(2,4-dichlorop henyl)methoxy]ethyl]-, mononitrate	22832-87-7	2.3
Prednisolone acetate		52-21-1	0.5

Composition comments

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

below reportable levels.

4. First-aid measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Suspected of causing genetic defects. May damage fertility or the unborn child. May cause harm to breast-fed children. May be fatal if swallowed and enters airways.

Indication of immediate

medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods

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

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Local authorities should be advised if significant spillages cannot be contained. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

Environmental precautions

Small Spillages:

Do not sweep. Vacuum material with appropriate dust collection filter in place. If vacuum is not available, lightly mist/wet material and remove by mopping or wet wiping.

Prevent further migration into the environment. Large spills due to traffic accidents, etc., should be reported immediately to CHEMTREC and Elanco Animal Health for assistance. Local authorities

should be advised if significant spillages cannot be contained.

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent

spilled material from flowing onto adjacent land or into streams, ponds, or lakes.

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7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Гуре	Value	Form
Liquid Paraffin (CAS	PEL	5 mg/m3	Mist.
0.4740 50.0\			

64742-56-9)

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Liquid Paraffin (CAS	TWA	5 mg/m3	Inhalable fraction.

64742-56-9)

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
Liquid Paraffin (CAS 64742-56-9)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

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

Thermal hazards Not available.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Liquid. **Physical state Form** Suspension. White Color Odorless Odor

No data available. **Odor threshold** No data available. pН Melting point/freezing point No data available. Initial boiling point and boiling No data available.

range

No data available. Flash point **Evaporation rate** No data available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

No data available. Flammability limit - lower

(%)

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Flammability limit - upper

(%)

No data available.

Explosive limit - lower (%)

No data available. No data available.

Explosive limit - upper (%) Vapor pressure

No data available.

Vapor density Relative density No data available. No data available.

Solubility(ies)

Solubility (water) **Partition coefficient**

No data available. No data available.

(n-octanol/water)

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

Other information

No data available. Density **Explosive properties** Not explosive. **Flammability** No data available. **Oxidizing properties** Not oxidizing. No data available. Potential for dust

explosion

VOC No data available.

10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Peroxides. Phenols. Incompatible materials **Hazardous decomposition** No hazardous decomposition products are known.

products

11. Toxicological information

Information on toxicological effects

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

Product Test Results Species

Surolan

Acute Oral

LD50 Rat 550 mg/kg Components **Species Test Results**

Liquid Paraffin (CAS 64742-56-9)

Acute Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

LC50 Rat 5000 mg/m3, 4 h

Oral

LD50 Rat > 5000 mg/kg

Material name: Surolan SDS US Components Species Test Results

Miconazole nitrate (CAS 22832-87-7)

<u>Acute</u>

Oral

LD50 Rat 920 mg/kg

Prednisolone acetate (CAS 52-21-1)

Oral

LD50 Mouse 1680 mg/kg

Skin corrosion/irritationBased on available data, the classification criteria are not met. **Serious eye damage/eye**Based on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

Respiratory sensitizationBased on available data, the classification criteria are not met.Skin sensitizationBased on available data, the classification criteria are not met.Germ cell mutagenicitySuspected of causing genetic defects. (Miconazole Nitrate)CarcinogenicityBased on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Liquid Paraffin (CAS 64742-56-9) Known To Be Human Carcinogen.

Reproductive toxicity May damage fertility or the unborn child. May cause harm to breastfed babies. (Prednisolone

Acetate)

Specific target organ toxicity -

single exposure

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

Specific target organ toxicity -

repeated exposure

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

Aspiration hazard May be fatal if swallowed and enters airways. (Liquid Paraffin)

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Liquid Paraffin (CAS 6	64742-56-9)	•	
Aquatic			
Algae	LC50	Algae	> 100 mg/l
Crustacea	LC50	Daphnia	> 100 mg/l
Fish	LC50	Fish	> 100 mg/l
Miconazole nitrate (CA	AS 22832-87-7)		
Other	EC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h
	NOEC	Activated sludge of a predominantly domestic sewage	>= 1000 mg/l, 3 h
Aquatic			
Algae	EC50	Algae	0.03 mg/l, 72 h
Crustacea	EC50	Daphnia magna	0.119 mg/l, 48 h
	NOEC	Daphnia magna	0.045 mg/l, 48 h
Fish	EC50	Danio rerio	0.144 mg/l, 96 h
	LOEC	Danio rerio	0.026 mg/l, 21 d
		Oncorhynchus mykiss	0.044 mg/l, 28 d
	NOEC	Danio rerio	0.028 mg/l, 96 h
			0.012 mg/l, 21 d

Material name: Surolan sps us

Components Species Test Results

Oncorhynchus mykiss 0.02 mg/l, 28 d

Prednisolone acetate (CAS 52-21-1)

Aquatic

 Crustacea
 EC50
 Daphnia
 > 85 mg/l, 24 h

 Fish
 LC50
 Fish
 > 500 mg/l

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)

Miconazole nitrate 3.4 Test method not available.

Bioconcentration factor (BCF)

Miconazole nitrate 1949

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

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

14. Transport information

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

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

DOT

Not regulated as dangerous goods.

IATA

UN number UN3082

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

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards Yes
ERG Code 9L

Special precautions for user Not available.

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Miconazole nitrate)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group ||||

Environmental hazards

Marine pollutant Yes
EmS F-A, S-F
Special precautions for user Not available.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

Material name: Surolan SDS US

IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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)

Classified hazard categories

Germ cell mutagenicity Reproductive toxicity Aspiration hazard

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 regulations

California Proposition 65

For more information go to www.P65Warnings.ca.gov.

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

Liquid Paraffin (CAS 64742-56-9)

International Inventories

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

Material name: Surolan SDS US

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
 03-31-2015

 Revision date
 02-05-2019

Version # 04

country(s).

List of abbreviations EC50: Effective Concentration 50%.

LC50: Lethal Concentration 50%.

LD: Lethal Dose. LD50: Lethal Dose 50%.

LOEC: Lowest observable effect concentration.
NOAEL: No observed adverse effect level.
NOEC: No observed effect concentration.
PEL: Permissible Exposure Limit.
STEL: Short-Term Exposure Limit.

TLV: Threshold Limit Value.

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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