

SAFETY DATA SHEET



Baytical pour on 1%

Version 1.0 Revision Date: 19.06.2020 SDS Number: 122000001437 Date of last issue: -
Date of first issue: 19.06.2020

Section 1: Identification

1.1 Product identifier

Baytical pour on 1%

HSNO Approval Number : HSR001801

ACVM number : A005335

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Veterinary medicine

1.3 Details of the supplier of the safety data sheet

Company

Elanco New Zealand
Unit A, 123 Ormiston Road
AUCKLAND
NEW ZEALAND
+64-9-272 5420
elanco_sds@elanco.com

1.4 Emergency telephone number

In case of emergency: CHEMTREC International: +1 703-527-3887 (24 hours)
or +64-0800 425 459 (Local toll free)

Section 2: Hazard identification

GHS Classification

Specific Target Organ Toxicity (Oral) : 6.9B

Aquatic toxicity (Acute or Chronic) : 9.1C

Ecotoxic to terrestrial invertebrates : 9.4C

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H373 May cause damage to organs through prolonged or re-

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peated exposure in contact with skin.
H412 Harmful to aquatic life with long lasting effects.
H443 Harmful to terrestrial invertebrates.

Precautionary statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum), viscosity $\leq 20,5$ mm ² /s	8042-47-5	≥ 70 -< 90
2-Octyldodecan-1-ol	5333-42-6	≥ 10 -< 20
Flumethrin	69770-45-2	≥ 1 -< 2,5

Section 4: First-aid measures

General advice : Take off all contaminated clothing immediately.
You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24hr emergency service).

If inhaled : Remove to fresh air.
Call a physician immediately.

In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.
If skin reactions occur, contact a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : If swallowed, seek medical advice immediately and show this container or label.

Most important symptoms : No information available.

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and effects, both acute and delayed

Notes to physician : No information available.

Section 5: Fire-fighting measures

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Fire may cause evolution of:
Hydrogen cyanide (hydrocyanic acid)
Hydrogen fluoride
Hydrogen chloride gas
Nitrogen oxides (NO_x)
Carbon oxides
- Specific extinguishing methods : Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
-

Section 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Use with adequate ventilation.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Suppress (knock down) gases/vapours/mists with a water spray jet.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Place in closed containers. Label for proper disposal.
-

Section 7: Handling and storage

- Advice on protection against fire and explosion : No special protective measures against fire required.
- Advice on safe handling : Industrial uses:
Avoid formation of aerosol.
Use with local exhaust ventilation.
Avoid contact with skin, eyes and clothing.
- Hygiene measures : Cleanliness Guidelines (GMP) for manufacturing of drugs must be observed!
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Conditions for safe storage : For storage suitable stores with adequate product-reception volume must be used.
During handling local official regulations must be observed in order to avert impairment of water by the product.

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
White mineral oil (petroleum), viscosity $\leq 20,5$ mm ² /s	8042-47-5	WES-TWA (Mist)	5 mg/m ³	NZ OEL
	Further information: Sampled by a method that does not collect vapour.			
		WES-TWA (Mist)	5 mg/m ³	NZ OEL
	Further information: Sampled by a method that does not collect vapour.			
		WES-STEL (Mist)	10 mg/m ³	NZ OEL
		WES-STEL (Mist)	10 mg/m ³	NZ OEL
		TWA (Inhalable fraction)	5 mg/m ³	ACGIH
		TWA (Inhalable fraction)	5 mg/m ³	ACGIH
Flumethrin	69770-45-2	Bayer OES	0,02 mg/m ³	

Personal protective equipment

Respiratory protection : Recommended respiratory protection: full mask with filter ABEK-ST (ABEK-P3)

Hand protection
Material : Hand protection: protective gloves for chemicals made of Baypren, nitrile rubber or PVC wear

Remarks : Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.

Eye protection : Safety glasses

Protective measures : No special safety precautions are required during handling of pharmaceuticals in their intended finished form (tablets or liquid formulations) by chemists, the hospital's medical staff or patients.
For the intake of ready for use pharmaceuticals or the external use on the skin please read the label and the package leaflet.
The personal protective equipment is applicable for the handling of bulk material without packaging and for incidents if an exposure by the active ingredient or hazardous components

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can be expected.
Wear suitable protective equipment.

Section 9: Physical and chemical properties

Appearance : liquid
Colour : yellowish
Odour : weak
Density : 0,86 g/cm³ (20 °C)
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Impact sensitivity : No data available
Minimum ignition energy : No data available

Section 10: Stability and reactivity

Reactivity : No data available
Chemical stability : No data available
Possibility of hazardous reactions : No data available
Conditions to avoid : No data available
Incompatible materials : Oxidizing agents
Hazardous decomposition products : Hydrogen cyanide (hydrocyanic acid)
Hydrogen fluoride
Hydrogen chloride gas
Nitrogen oxides (NO_x)
Carbon oxides

Section 11: Toxicological information

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate (ATE): 431,11 mg/kg
Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate (ATE): 6,02 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate (ATE): 2.830 mg/kg
Method: Calculation method

Components:

White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD 401
Assessment: No adverse effect has been observed in acute toxicity tests.

2-Octyldodecan-1-ol:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD 401
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute inhalation toxicity : Assessment: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD 402
Assessment: No adverse effect has been observed in acute toxicity tests.

Flumethrin:

Acute oral toxicity : LD50 (Rat): 175 mg/kg
Test substance: in corn oil

Acute inhalation toxicity : LC50 (Rat): 0,572 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: OECD 403

Acute dermal toxicity : LD50 (Rat, female): 1.436 mg/kg

Skin corrosion/irritation

Components:

White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$:

Species : Rabbit
Method : OECD 404
Result : No skin irritation

2-Octyldodecan-1-ol:

Species : Rabbit

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Method : OECD 404
Result : No skin irritation

Flumethrin:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Components:

White mineral oil (petroleum), viscosity $\leq 20,5$ mm²/s:

Species : Rabbit
Result : No eye irritation
Method : OECD 405

2-Octyldodecan-1-ol:

Species : Rabbit
Result : No eye irritation
Method : Draize Test

Flumethrin:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Components:

White mineral oil (petroleum), viscosity $\leq 20,5$ mm²/s:

Species : Guinea pig
Method : OECD 406
Result : Did not cause sensitisation on laboratory animals.

2-Octyldodecan-1-ol:

Species : Guinea pig
Method : OECD 406
Result : Does not cause skin sensitisation.

Assessment : An acute toxic effect is not expected.

Flumethrin:

Test Type : Skin sensitisation
Species : Guinea pig
Method : Magnusson and Kligmann maximization test
Result : Did not cause sensitisation on laboratory animals.

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Chronic toxicity

Germ cell mutagenicity

Components:

White mineral oil (petroleum), viscosity $\leq 20,5$ mm²/s:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Method: OECD 471
Result: No indication of mutagenic effects.

2-Octyldodecan-1-ol:

Genotoxicity in vitro : Test Type: Ames test
Method: OECD 471
Result: negative

Flumethrin:

Genotoxicity in vitro : Result: No evidence of a genotoxic effect.

Genotoxicity in vivo : Result: No evidence of a genotoxic effect.

Carcinogenicity

Components:

2-Octyldodecan-1-ol:

Result : No indication on the basis of the available data.

Flumethrin:

Species : Rat
Result : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

White mineral oil (petroleum), viscosity $\leq 20,5$ mm²/s:

Effects on fertility : Species: Rat
Application Route: Oral
General Toxicity F1: NOAEL: > 4.350 mg/kg
Result: Animal studies have produced no evidence of toxic effects on reproduction.

2-Octyldodecan-1-ol:

Flumethrin:

Effects on fertility : Species: Rat
Result: Animal testing did not show any effects on fertility.

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STOT - single exposure

Components:

Flumethrin:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

2-Octyldodecan-1-ol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Flumethrin:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$:

Species : Rabbit
NOAEL : 1.000 mg/kg
Application Route : Dermal
Method : OECD Test Guideline 410

2-Octyldodecan-1-ol:

Repeated dose toxicity - Assessment : An acute toxic effect is not expected.

Aspiration toxicity

Components:

White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$:

May be fatal if swallowed and enters airways.

Further information

Components:

White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$:

Remarks : Risk of serious damage to the lungs (by aspiration).
Aspiration of mineral oil dust may cause lipoid pneumonia.

Flumethrin:

Pharmaceutic effects
Remarks : Antiparasitic agent

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Section 12: Ecological information

Ecotoxicity

Components:

White mineral oil (petroleum), viscosity $\leq 20,5$ mm²/s:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1.000 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity
Method: OECD 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD 202
- Toxicity to algae/aquatic plants : NOEL (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time:
Method: OECD 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 21 d
Method: OECD 211

2-Octyldodecan-1-ol:

- Toxicity to microorganisms : EC0 (Bacteria): > 100 mg/l
Method: OECD 209

Ecotoxicology Assessment

- Acute aquatic toxicity : This product has no known ecotoxicological effects.

Flumethrin:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,17 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity
Method: OECD 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,0027 mg/l
Exposure time: 48 h
Method: OECD 202
- Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): 0,59 mg/l
Exposure time: 72 h
Method: OECD 201

Persistence and degradability

Components:

White mineral oil (petroleum), viscosity $\leq 20,5$ mm²/s:

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Biodegradability : Result: Partially biodegradable.
Biodegradation: > 31,3 %
Exposure time: 28 d
Method: OECD 301F

2-Octyldodecan-1-ol:

Biodegradability : Biodegradation
Result: rapidly biodegradable
Biodegradation: > 60 %
Exposure time: 28 d

Flumethrin:

Biodegradability : Result: Not rapidly biodegradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD 301F

Bioaccumulative potential

Components:

2-Octyldodecan-1-ol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Pow: > 8 (23 °C)
Method: OECD 117

Flumethrin:

Partition coefficient: n-octanol/water : log Pow: 6,2

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Do not allow to enter surface waters or groundwater.

Section 13: Disposal considerations

Disposal methods

Contaminated packaging : Contaminated, empty containers are to be treated in the same way as the contents.

Section 14: Transport information

IATA-DGR

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UN/ID No. : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUMETHRIN)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUMETHRIN)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

No statements available.

HSNO Approval Number

HSR001801

HSW Controls

Approved handler certificate not required.
HSNO tracking not required.
Refer to EPA user guide to the HSNO control regulations for further information.

Montreal Protocol (Ozone Depleting Substances) : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

The components of this product are reported in the following inventories:

NZIoC : On the inventory, or in compliance with the inventory

Section 16: Other information

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Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average
NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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