

Version Revision Date: SDS Number: Date of last issue: -

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Bayticol 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- : Veterinary medicine

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company

Bayer New Zealand Limited 3 Argus Place 0627 HILLCREST, AUCKLAND, NEW ZEALAND

NEW ZEALAND Tel.: 0800 652 488 Fax: 0800 229 838

Mail: bhc-md-oeko@bayer.com

1.4 Emergency telephone number

In case of emergency: 0800 734 607 IXOM SH&E Shared services (24hr)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

6.9: Specific Target Organ

Toxicity (Oral)

Category B

9.1: Aquatic toxicity (Acute or :

Chronic)

Category C

9.4: Ecotoxic to terrestrial

invertebrates

Category C

GHS label elements

Hazard pictograms



Signal word : Warning

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

peated exposure in contact with skin.



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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

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum), viscosity <=20,5	8042-47-5	>= 70 -< 90
mm²/s		
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 and effects, both acute and

delayed

No information available. No information available.



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Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon 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 (NOx)

Carbon oxides

Specific extinguishing meth-

ods

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, protec: :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Use with adequate ventilation. No special precautions required.

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!

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



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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 <=20,5 mm²/s	8042-47-5	WES-TWA (Mist)	5 mg/m3	NZ OEL
	Further information: Sampled by a method that does not collect vapour.			
		WES-STEL (Mist)	10 mg/m3	NZ OEL
		TWA (Inhal- able fraction)	5 mg/m3	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 pharmaceutials 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

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)



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Decomposition temperature : No data available

Explosive properties No statements available.

Oxidizing properties No statements available.

Impact sensitivity No data available

SECTION 10. STABILITY AND REACTIVITY

: No statements available. Chemical stability

Possibility of hazardous reac- : No data available

tions

Conditions to avoid No data available

Incompatible materials Oxidizing agents

Hazardous decomposition

products

: Hydrogen cyanide (hydrocyanic acid)

Hydrogen fluoride Hydrogen chloride gas Nitrogen oxides (NOx)

Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

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

Method: Calculation method

Acute toxicity estimate (ATE): 6,02 mg/l Acute inhalation toxicity

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 <=20,5 mm²/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



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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 <=20,5 mm²/s:

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

2-Octyldodecan-1-ol:

Species: Rabbit 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 <=20,5 mm²/s:

Species: Rabbit

Result: No eye irritation Method: OECD 405

2-Octyldodecan-1-ol:

Species: Rabbit



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Result: No eye irritation Method: Draize Test

Flumethrin:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Components:

White mineral oil (petroleum), viscosity <=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.

Chronic toxicity

Germ cell mutagenicity

Components:

White mineral oil (petroleum), viscosity <=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.



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Reproductive toxicity

Components:

White mineral oil (petroleum), viscosity <=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.

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 <=20,5 mm²/s:

Species: Rabbit NOAEL: 1.000 mg/kg Application Route: Dermal

Method: OECD Test Guideline 410

2-Octyldodecan-1-ol:

Repeated dose toxicity -

: An acute toxic effect is not expected.

Assessment



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Aspiration toxicity

Components:

White mineral oil (petroleum), viscosity <=20,5 mm²/s:

May be fatal if swallowed and enters airways.

Further information

Components:

White mineral oil (petroleum), viscosity <=20,5 mm²/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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

White mineral oil (petroleum), viscosity <=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 : NOEL (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: Method: OECD 201

Ecotoxicology Assessment

Acute aquatic toxicity : slightly water endangering

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:



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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 : IC50 (Desmodesmus subspicatus (green algae)): 0,59 mg/l

Exposure time: 72 h Method: OECD 201

M-Factor (Acute aquatic tox-

icity)

100

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

White mineral oil (petroleum), viscosity <=20,5 mm²/s:

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

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Flumethrin:

Partition coefficient: n-

octanol/water

log Pow: 6,2

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

: Do not allow to enter surface waters or groundwater.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of as hazardous waste in compliance with local and

national regulations.

Contaminated packaging : Contaminated, empty containers are to be treated in the same

way as the contents.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FLUMETHRIN)

Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo : 964

aircraft)

Packing instruction (passen: 964

ger aircraft)

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.



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National Regulations

SECTION 15. REGULATORY INFORMATION

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

No statements available.

HSNO Approval Number

HSR001801

HSNO Controls

Approved handler certificate not required.

HSNO tracking not required.

Refer to EPA user guide to the HSNO control regulations for further information.

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

Full text of other abbreviations

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; CPR - Controlled Products Regulations; 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: KECI - 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



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ACGIH : USA. ACGIH Threshold Limit Values (TLV)

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospher-

ic 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

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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