

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

Profender

HSNO Approval Number : HSR001760

ACVM number A009546

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

3.1: Flammable Liquids Category D

6.1: Acute toxicity (Oral) Category E

6.4: Eye irritation Category A

6.8: Toxic to Reproduction Category B

6.9: Specific Target Organ

Toxicity (Oral)

Central nervous system)

Category B (Pancreas, Liver, Kidney, Glucose Metabolism,

9.1: Aquatic toxicity (Acute or

Chronic)

: Category A

GHS label elements



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Hazard pictograms







Signal word : Warning

Hazard statements : H227 Combustible liquid.

H303 May be harmful if swallowed. H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs (Pancreas, Liver, Kidney, Glucose Metabolism, Central nervous system) through pro-

longed or repeated exposure if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

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)
2,2-Dimethyl-1,3-dioxolan-4-ylmethanol	100-79-8	>= 70 -< 90
Praziquantel	55268-74-1	>= 1 -< 10
Lactic acid	50-21-5	>= 1 -< 10
Emodepside	155030-63-0	>= 1 -< 2,5
2-tert-Butyl-4-methoxyphenol	121-00-6	>= 0,1 -< 1

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.



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After contact with skin, wash immediately with plenty of soap In case of skin contact

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.

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:

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2)

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 : No special protective measures against fire required.



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fire and explosion

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

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	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Emodepside	155030-63-0	Bayer OES	0,03 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



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Colour : colourless

Odour : weak

Boiling point/boiling range : ca. 190 °C

Flash point : 80 °C

Density : 1,081 g/cm³ (20 °C)

Method: DIN 51757

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Explosive properties : No statements 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 reac-

tions

No data available

Conditions to avoid : Do not allow product to come in contact with:

Heat

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

Nitrogen oxides (NOx)

Carbon monoxide (CÓ)

Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate (ATE): 4.899 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate (ATE): > 5.000 mg/kg

Method: Calculation method



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Components:

2,2-Dimethyl-1,3-dioxolan-4-ylmethanol:

Acute oral toxicity : LD50 (Rat): 7.000 mg/kg

Assessment: No adverse effect has been observed in acute

toxicity tests.

Acute toxicity (other routes of :

administration)

LD50 (Rat): 3.000 mg/kg

Application Route: Intraperitoneal

Praziquantel:

Acute oral toxicity : LD50 (Rat): 2.840 mg/kg

Lactic acid:

Acute oral toxicity : LD50 (Rat): 3.543 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Emodepside:

Acute oral toxicity : LD50 (Rat): > 500 - < 1.000 mg/kg

Method: OECD 423

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD 402

Assessment: The component/mixture is minimally toxic after

single contact with skin.

2-tert-Butyl-4-methoxyphenol:

Acute oral toxicity : LD50 (Rat): 880 mg/kg

Skin corrosion/irritation

Components:

2,2-Dimethyl-1,3-dioxolan-4-ylmethanol:

Species: Rabbit

Result: No skin irritation

Lactic acid:

Result: irritating

Emodepside:

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



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Serious eye damage/eye irritation

Components:

Praziquantel:

Result: May irritate eyes.

Lactic acid:

Result: Risk of serious damage to eyes.

Emodepside:

Species: Rabbit

Result: No eye irritation Method: OECD 405

Respiratory or skin sensitisation

Components:

2,2-Dimethyl-1,3-dioxolan-4-ylmethanol:

Assessment: An acute toxic effect is not expected.

Lactic acid:

Result: Does not cause skin sensitisation.

Emodepside:

Species: Guinea pig Method: OECD 406

Result: Does not cause skin sensitisation.

Chronic toxicity

Germ cell mutagenicity

Components:

2,2-Dimethyl-1,3-dioxolan-4-ylmethanol:

Genotoxicity in vitro : Test Type: Ames test

Result: No indication of mutagenic effects.

Test Type: Chromosome aberration test in vitro

Result: negative

Praziquantel:

Genotoxicity in vitro : Test Type: Ames test

Result: No indication of mutagenic effects.

Lactic acid:

Genotoxicity in vitro : Remarks: Tests with bacteria and mammalian cells showed

no evidence of genotoxic effects.



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Emodepside:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Method: OECD 471 Result: negative

Test Type: V79-HPRT Forward Mutation Assay

Test system: Hamster V79-cells

Method: OECD 476 Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Hamster V79-cells

Method: OECD 473 Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Application Route: Intraperitoneal

Method: OECD 474 Result: negative

2-tert-Butyl-4-methoxyphenol:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Carcinogenicity

Components:

Praziquantel:Carcinogenicity - Assess-

ment

Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

Praziquantel:

Reproductive toxicity - As-

sessment

: No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

STOT - single exposure

Components:

Praziquantel:

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

2-tert-Butyl-4-methoxyphenol:

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



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exposure.

STOT - repeated exposure

Components:

Praziquantel:

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

Emodepside:

Exposure routes: Ingestion

Target Organs: Pancreas, Liver, Kidney, Glucose Metabolism, Central nervous system

Assessment: Causes damage to the nervous system through prolonged or repeated exposure.

2-tert-Butyl-4-methoxyphenol:

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

Repeated dose toxicity

Components:

2,2-Dimethyl-1,3-dioxolan-4-ylmethanol:

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

Assessment

Emodepside:

Species: Rat, male

LOAEL: 4,2 mg/kg, 50 ppm Application Route: Oral Exposure time: 4 weeks Method: OECD 407

Species: Mouse, female NOAEL: 16,8 mg/kg, 50 ppm LOAEL: 79,1 mg/kg, 250 ppm Application Route: Oral Exposure time: 13 Weeks Method: OECD 408

Target Organs: pancreatic islet, Liver, Kidney, Glucose Metabolism, Central nervous system

Further information

Components:

Praziquantel:

Pharmaceutic effects Remarks: Anthelmintics

Remarks: Ingestion of large quantities:

Drowsiness

Difficulty in breathing



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Ataxia (uncontrolled movements)

Tiredness

Emodepside:

Pharmaceutic effects

Remarks: Antiparasitic agent

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2,2-Dimethyl-1,3-dioxolan-4-ylmethanol:

Ecotoxicology Assessment

Acute aquatic toxicity : slightly water endangering

Praziquantel:

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): 35 mg/l

Exposure time: 48 h

Toxicity to algae : EbC50 (Desmodesmus subspicatus (green algae)): 140 mg/l

Exposure time: 72 h

Test Type: Cell multiplication inhibition test

ErC50 (Desmodesmus subspicatus (green algae)): 77 mg/l

Exposure time: 72 h

Test Type: Cell multiplication inhibition test

NOEbC (Desmodesmus subspicatus (green algae)): 25 mg/l

Exposure time: 72 h

Test Type: Cell multiplication inhibition test

NOErC (Desmodesmus subspicatus (green algae)): 25 mg/l

Exposure time: 72 h

Test Type: Cell multiplication inhibition test

Toxicity to microorganisms : EC50 (activated sludge micro-organism): > 1.000 mg/l

Exposure time: 3 h Method: OECD 209

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Lactic acid:

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 240 mg/l

Exposure time: 48 h



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Ecotoxicology Assessment

Acute aquatic toxicity slightly water endangering

Emodepside:

Toxicity to fish LC0: > 0.01 mg/l

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,0021 mg/l

Exposure time: 48 h

Toxicity to algae EC0: 0,01 mg/l

Exposure time:

Remarks: No toxicity at the limit of solubility

M-Factor (Acute aquatic tox-

icity)

100

Toxicity to microorganisms EC50 (adapted and activated sludge micro-organism): >

10.000 mg/l

Toxicity to soil dwelling or-

ganisms

LC50: > 1.000 mg/kg

Exposure time: 14 d

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:

Praziquantel:

Biodegradability Result: Not rapidly biodegradable

Biodegradation: 0 %

Chemical Oxygen Demand

(COD)

2.340 mg/g

Method: DIN 38414

Lactic acid:

Biochemical Oxygen De-

mand (BOD)

0.45 mg/g

Incubation time: 5 d

0,60 mg/g

Incubation time: 20 d

Chemical Oxygen Demand

(COD)

0,90 mg/g

Emodepside:

Biodegradability Result: Not rapidly biodegradable



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Bioaccumulative potential

Components:

Praziquantel:

Partition coefficient: n-

octanol/water

log Pow: 2,012

Lactic acid:

Partition coefficient: n-

octanol/water

log Pow: -0,62

Emodepside:

Partition coefficient: n-

octanol/water

log Pow: 4,9 pH: 7

2-tert-Butyl-4-methoxyphenol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 3,5

Method: Calculation method

Mobility in soil
No data available

Other adverse effects

Product:

Additional ecological infor-

mation

: Do not allow to enter surface waters or groundwater.

Components:

Lactic acid:

Adsorbed organic bound

halogens (AOX)

Remarks: Product does not contain any organic halogens.

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



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IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(EMODEPSIDE)

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.

(EMODEPSIDE)

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.

National Regulations

SECTION 15. REGULATORY INFORMATION

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

HSNO Approval Number

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HSNO Controls

Approved handler certificate required

HSNO tracking 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);



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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

Date format : dd.mm.yyyy

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