

SAFETY DATA SHEET

Penethaject



Version 2.0 Revision Date: 15.08.2018 SDS Number: 122000008230 Date of last issue: 01.12.2011
Date of first issue: 01.12.2011

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

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

1.1 Product identifier

Penethaject

HSNO Approval Number : HSR002165

ACVM number : A009423

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

6.1: Acute toxicity : Category E

6.5: Skin sensitisation : Category B

9.1: Aquatic toxicity (Acute or : Category A
Chronic)

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H303 May be harmful if swallowed.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements : P102 Keep out of reach of children.
P202 Do not handle until all safety precautions have been read and understood.

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P285 In case of inadequate ventilation wear respiratory protection.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Vial 1 (Powder): White crystalline powder. Vial 2 (Diluent): Clear and colourless liquid.
(1000 mg/g becomes 333,3 g/l once dissolved)

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Trisodium citrate	68-04-2	≥ 1 -< 2,5
Penethamate hydriodide	808-71-9	$\geq 0,25$ -< 1
Methyl 4-hydroxybenzoate	99-76-3	$\geq 0,1$ -< 0,25

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.
If symptoms persist, call a physician.

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- In case of skin contact : No hazards which require special first aid measures.
Wash off with soap and water.
- In case of eye contact : No hazards which require special first aid measures.
Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.
- If swallowed : No hazards which require special first aid measures.
- Most important symptoms and effects, both acute and delayed : No information available.
No information available.
- Notes to physician : No information available.
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SECTION 5. FIREFIGHTING 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:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- 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.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
No special precautions required.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.
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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : The product is not flammable.
- Advice on safe handling : No special precautions required.
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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.
Keep tightly closed in a dry and cool place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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 : Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Decomposition temperature : No data available

Oxidizing properties : No statements available.

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : No data available

Possibility of hazardous reactions : No data available

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition products : Carbon monoxide (CO)
Carbon dioxide (CO₂)

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

Trisodium citrate:

Acute oral toxicity : LD50 (Rat): > 8.000 mg/kg
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute toxicity (other routes of administration) : LD50 (Rat): 1.548 mg/kg
Application Route: Intraperitoneal

Penethamate hydriodide:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

Skin corrosion/irritation

Components:

Trisodium citrate:

Species: Rabbit
Exposure time: 4 h
Method: OECD 404
Result: No skin irritation

Methyl 4-hydroxybenzoate:

Species: Rabbit
Exposure time: 24 h
Result: No skin irritation

Serious eye damage/eye irritation

Components:

Trisodium citrate:

Species: Rabbit
Result: No eye irritation
Exposure time: 72 h
Method: OECD 405

Methyl 4-hydroxybenzoate:

Species: Rabbit
Result: Mild eye irritation
Assessment: The available study results do not lead to a GHS classification

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Species: Rat (male)
Application Route: Oral
Method: OECD 478
Result: negative

Test Type: Chromosome aberration test in vivo
Species: Rat (male)
Application Route: Oral
Method: OECD 475
Result: negative

Repeated dose toxicity

Components:

Trisodium citrate:

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

Methyl 4-hydroxybenzoate:

Species: Rat, male and female
NOAEL: 250 mg/kg
Application Route: Oral
Exposure time: 28-day
Method: OECD 407
Test substance: in polyethylene glycol 400
GLP: yes

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Trisodium citrate:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 18.000 - 32.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: > 50 mg/l
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): 5.600 - 10.000 mg/l
Exposure time: 48 h

Toxicity to algae : IC50 (Chlorella vulgaris (Fresh water algae)): 18.000 - 32.000 mg/l
Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Methyl 4-hydroxybenzoate:

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- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 59,5 mg/l
Exposure time: 96 h
Test Type: Semi-static test
Analytical monitoring: yes
Method: OECD 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 11,2 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: ISO 6341
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 91 mg/l
Exposure time: 72 h
Test Type: Growth rate
Method: ISO 8692
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 5,32 mg/l
Exposure time: 21 d
Test Type: Reproductive toxicity
Analytical monitoring: yes
Method: OECD 211
- NOEC (Daphnia magna (Water flea)): 0,2 mg/l
Exposure time: 21 d
Test Type: Reproductive toxicity
Analytical monitoring: yes
Method: OECD 211
- Toxicity to microorganisms : IC50 (Tetrahymen pyriformis): 125 mg/l
Exposure time: 48 h

Persistence and degradability

Components:

Trisodium citrate:

- Biodegradability : Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 30 d

Methyl 4-hydroxybenzoate:

- Biodegradability : aerobic
Concentration: 20 mg/l
Biochemical oxygen demand
Result: rapidly biodegradable
Biodegradation: 92,2 %
Exposure time: 28 d
Method: OECD 301F

- Stability in water : Test Type: Hydrolysis
Remarks: not hydrolyzed.

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Bioaccumulative potential

Components:

Methyl 4-hydroxybenzoate:

Bioaccumulation : Bioconcentration factor (BCF): 6,4
Method: Calculation method
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Pow: 95,5 (22 °C)
log Pow: 1,98 (22 °C)
pH: 7,5
Method: OECD 107

Mobility in soil

No data available

Other adverse effects

Product:

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

Components:

Methyl 4-hydroxybenzoate:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methyl 4-hydroxybenzoate)
Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo) : 956

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aircraft)
Packing instruction (passenger aircraft) : 956
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Methyl 4-hydroxybenzoate)
Class : 9
Packing group : III
Labels : 9
Marine pollutant : no

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

No statements available.

HSNO Approval Number

HSR002165

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

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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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