

SAFETY DATA SHEET

Calform Phosphorus



Version 1.0 Revision Date: 24.04.2018 SDS Number: 122000017238 Date of last issue: -
Date of first issue: 24.04.2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

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

1.1 Product identifier

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HSNO Approval Number : HSR002521

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

Use of the Sub-stance/Mixture : Animal nutritional and animal care products

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

6.3: Skin irritation : Category A

6.4: Eye irritation : Category A

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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Response:

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

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)
Calcium hydrogenorthophosphate	7757-93-9	>= 30 -< 50
Magnesium hydrogenorthophosphate trihydrate	7782-75-4	>= 1 -< 10
Propionic acid	79-09-4	>= 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.
- 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.
- Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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- 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.
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency 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 order to avert impairment of water by the product.
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

- Respiratory protection : Recommended respiratory protection: full mask with filter
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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 can be expected.
Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- 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

- Chemical stability : No statements available.
- Possibility of hazardous reactions : No data available
- Conditions to avoid : No data available
- Incompatible materials : Oxidizing agents
- Hazardous decomposition products : Carbon monoxide (CO)
Carbon dioxide (CO₂)

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate (ATE): > 5.000 mg/kg
Method: Calculation method

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

Components:

Calcium hydrogenorthophosphate:

Acute oral toxicity : LD50 (Rat): 10.000 mg/kg
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute inhalation toxicity : LC50 (Rat): > 2,6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: OECD 403
Test substance: Data on a comparable substance
GLP: yes
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): > 7.940 mg/kg
Assessment: No adverse effect has been observed in acute toxicity tests.

Propionic acid:

Acute oral toxicity : LD50 (Rat, male and female): 3.455,1 mg/kg
Method: OECD 401

Acute dermal toxicity : LD50 (Rat, female): 3.235 mg/kg
Method: OECD 402

Skin corrosion/irritation

Components:

Calcium hydrogenorthophosphate:

Species: Human experience
Result: No skin irritation

Magnesium hydrogenorthophosphate trihydrate:

Result: Corrosive

Propionic acid:

Species: Rabbit
Method: OECD 404

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Result: Corrosive

Serious eye damage/eye irritation

Components:

Calcium hydrogenorthophosphate:

Species: Human experience
Result: No eye irritation

Magnesium hydrogenorthophosphate trihydrate:

Result: Risk of serious damage to eyes.

Propionic acid:

Species: Rabbit
Result: Irreversible effects on the eye
Exposure time: 24 h
Assessment: Causes burns.
Method: FHSA (Federal Substance Hazard Act)

Respiratory or skin sensitisation

Components:

Propionic acid:

Test Type: Skin sensitization
Species: Guinea pig
Method: OECD 406
Result: Does not cause skin sensitisation.

Chronic toxicity

Germ cell mutagenicity

Components:

Calcium hydrogenorthophosphate:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Propionic acid:

Genotoxicity in vitro : Test Type: Reverse Mutation test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative

Test Type: sister chromatid exchange assay
Test system: Hamster V79-cells
Metabolic activation: with and without metabolic activation
Method: OECD 479
Result: negative

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Genotoxicity in vivo : Test Type: Micronucleus test
Species: Hamster
Cell type: Bone marrow erythrocytes
Application Route: intraperitoneal
Exposure time: Single dose
Method: OECD 474
Result: negative

STOT - single exposure

Components:

Calcium hydrogenorthophosphate:

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

STOT - repeated exposure

Components:

Calcium hydrogenorthophosphate:

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

Repeated dose toxicity

Components:

Propionic acid:

Species: Dog, male and female
NOAEL: ca. 733,4 mg/kg
Application Route: Oral
Exposure time: 13 Weeks
Number of exposures: Continuous exposure via feed.
Method: OECD 409

Species: Mouse, female
LOAEL: 136,9 mg/kg
Application Route: Dermal
Exposure time: 90-day
Number of exposures: Once daily
Method: OECD Test Guideline 411

Aspiration toxicity

Components:

Calcium hydrogenorthophosphate:

No aspiration toxicity classification

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Propionic acid:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 10.000 mg/l
Exposure time: 96 h
Test Type: Static test
Method: DIN 38412
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: EC C.2.
- Toxicity to microorganisms : EC20 (activated sludge micro-organism): 500 mg/l
Exposure time: 0,5 h
Test Type: Respiration inhibition
Method: ISO 8192

Persistence and degradability

Components:

Calcium hydrogenorthophosphate:

- Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

Magnesium hydrogenorthophosphate trihydrate:

- Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Propionic acid:

- Biodegradability : Zahn-Wellens Test
Inoculum: activated sludge micro-organism
Concentration: 400 mg/l
Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 10 d
Lag phase: 1 d
Beginning of plateau phase: 3 d
Method: OECD 302B
Remarks: Inherently degradable

Bioaccumulative potential

Components:

Calcium hydrogenorthophosphate:

- Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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Partition coefficient: n-octanol/water : log Pow: -2,55
Method: (calculated)

Propionic acid:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 0,33 (25 °C)
Method: QSAR

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

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

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

HSR002521

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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

Date format : dd.mm.yyyy

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NZ / EN