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Section 1: Identification

1.1 Product identifier

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HSNO Approval Number : HSR002399

ACVM number : A001441

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

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

Toxic to Reproduction : 6.8B

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H361 Suspected of damaging fertility or the unborn child.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

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Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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)
Boric acid	10043-35-3	>= 2 -< 10
Magnesium chloride	7786-30-3	>= 1 -< 10
D-gluconic acid, cyclic 4,5-ester with boric acid,	Not Assigned	25
calcium salt		

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.

Notes to physician : No information available.

Section 5: Fire-fighting measures

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

bon 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 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.

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

(Form of ters / Permissible exposure) concentration	Components	CAS-No.	,		Basis
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Boric acid	10043-35-3	TWA (Inhal- able fraction)	2 mg/m³ (Borate)	ACGIH
		TWA (Inhal- able fraction)	2 mg/m³ (Borate)	ACGIH
		STEL (Inhalable fraction)	6 mg/m³ (Borate)	ACGIH
		STEL (Inhalable able fraction)	6 mg/m³ (Borate)	ACGIH

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

can be expected.

Wear suitable protective equipment.

Section 9: Physical and chemical properties

Appearance : liquid

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

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Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous reac-

tions

No data available

Conditions to avoid : No data available

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

Carbon monoxide (CO)
Carbon dioxide (CO2)

Section 11: Toxicological information

Acute toxicity

Product:

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

Method: Calculation method

Components:

Boric acid:

Acute oral toxicity : LD50 (Rat): 2.660 mg/kg

Assessment: The component/mixture is minimally toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 2,12 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist/aerosol

Method: OECD 403

Assessment: No adverse effect has been observed in acute

toxicity tests.

Magnesium chloride:

Acute oral toxicity : LD50 (Rat): 2.800 mg/kg

Skin corrosion/irritation

Components:

Boric acid:

Species : Rabbit Exposure time : 24 h

Result : No skin irritation

Magnesium chloride:

Species : Rabbit

Result : No skin irritation

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Serious eye damage/eye irritation

Components:

Boric acid:

Species : Rabbit

Result : No eye irritation

Exposure time : 24 h

Method : OECD 405

Magnesium chloride:

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Components:

Boric acid:

Species : Guinea pig Method : OECD 406

Result : Does not cause skin sensitisation.

Chronic toxicity

Germ cell mutagenicity

Components:

Boric acid:

Genotoxicity in vitro : Test Type: DNA damage and/or repair

Test system: Hamster V79-cells

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD 471 Result: negative

Test Type: In vitro gene mutation study in mammalian cells

Test system: mammalian cells

Metabolic activation: with and without metabolic activation

Method: OECD 476 Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vivo

Species: Mouse (male and female)

Application Route: Oral

Exposure time: Multiple dose

Method: OECD 474 Result: negative

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Magnesium chloride:

Genotoxicity in vitro : Test Type: Bacterial mutagenicity

Result: negative

Carcinogenicity

Components:

Boric acid:

Species : Mouse
Application Route : Oral
Exposure time : 721 days
Method : OECD 451

Result : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

Boric acid:

Effects on fertility : Test Type: Two-generation study

Species: Rat

Application Route: Oral

Frequency of Treatment: 1 daily

General Toxicity - Parent: NOAEL: 100 mg/kg General Toxicity F1: NOAEL: 100 mg/kg General Toxicity F2: NOAEL: 100 mg/kg Result: No toxicity to reproduction

Reproductive toxicity - As-

sessment

Positive evidence of adverse effects on sexual function and

fertility from human epidemiological studies., Positive evidence of adverse effects on development from human epide-

miological studies.

Repeated dose toxicity

Components:

Boric acid:

Species : Rat, male and female

NOAEL : 17,5 mg/kg LOAEL : 334 mg/kg Application Route : Oral

Further information

Components:

Boric acid:

Remarks : If swallowed

Nausea Vomiting

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Diarrhoea

Remarks : After absorption of large quantities

Ataxia drowsiness

Ataxia (uncontrolled movements)

Magnesium chloride:

Remarks : After absorption of large quantities

Nausea Vomiting Diarrhoea

Remarks : Systemic toxicity

hypotension

Cardiovascular disorders

Tiredness

Section 12: Ecological information

Ecotoxicity

Components:

Boric acid:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 5.600 mg/l

Exposure time: 96 h

LC0 (Lepomis macrochirus (Bluegill sunfish)): > 1,021 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 133 mg/l

Exposure time: 48 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

(Daphnia magna (Water flea)): 53,2 mg/l

Exposure time: 21 d

Test Type: Reproductive toxicity

Ecotoxicology Assessment

Acute aquatic toxicity : slightly hazardous to water

Magnesium chloride:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.120 mg/l

Exposure time: 96 h Test Type: static test Method: US-EPA

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 548,4 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

IC50 (Desmodesmus subspicatus (green algae)): 2.200 mg/l

Exposure time: 72 h

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Toxicity to microorganisms : EC50 (Photobacterium phosphoreum): 36.300 mg/l

Exposure time: 0,5 h

Persistence and degradability

Components:

Boric acid:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Bioaccumulative potential

Components:

Boric acid:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 0,757

Magnesium chloride:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

: Do not allow to enter surface waters or groundwater.

Components:

Magnesium chloride:

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.

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Section 14: Transport information

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.

Section 15: Regulatory information

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

HSNO Approval Number

HSR002399

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

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : 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

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- 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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