

# SAFETY DATA SHEET



Destruct

Version      Revision Date:      SDS Number:      Date of last issue: -  
1.0          24.06.2020          122000017795      Date of first issue: 24.06.2020

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## Section 1: Identification

### 1.1 Product identifier

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HSNO Approval Number      :    HSR001948

ACVM number                 :    A005740

### 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

Elanco New Zealand  
88 Shortland Street  
1010 AUCKLAND  
NEW ZEALAND  
+64 0800 352 626  
elanco\_sds@elanco.com

### 1.4 Emergency telephone number

**In case of emergency:** CHEMTREC International: +1 703-527-3887 (24 hours)  
or +64-98010034 (local)

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## Section 2: Hazard identification

### GHS Classification

Acute toxicity (Oral)             :    6.1D

Acute toxicity (Dermal)         :    6.1D

Skin irritation                    :    6.3B

Eye irritation                     :    6.4A

Specific Target Organ Toxicity :    6.9A

Aquatic toxicity (Acute or       :    9.1A  
Chronic)

Aquatic toxicity (Acute or       :    9.1B  
Chronic)

Aquatic toxicity (Acute or       :    9.1C  
Chronic)

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Ecotoxic to terrestrial vertebrates : 9.3C

Ecotoxic to terrestrial invertebrates : 9.4B

## GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H316 Causes mild skin irritation.  
H319 Causes serious eye irritation.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.  
H433 Harmful to terrestrial vertebrates.  
H442 Toxic to terrestrial invertebrates.

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.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

## 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)
2-(2-butoxyethoxy)ethanol	112-34-5	>= 70 -< 90
Propetamphos	31218-83-4	>= 10 -< 20

## Section 4: First-aid measures

General advice : Take off all contaminated clothing immediately.  
You should call the National Poisons Centre if you feel that

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- 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 carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)
- 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.  
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).
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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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-(2-butoxyethoxy)ethanol	112-34-5	TLV-C	100 mg/m <sup>3</sup>	
		TWA (Inhalable fraction and vapor)	10 ppm	ACGIH
		TWA (Inhalable fraction and vapor)	10 ppm	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 exter-

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nal 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.

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## Section 9: Physical and chemical properties

Appearance : liquid  
Colour : light brown  
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

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## Section 10: Stability and reactivity

Reactivity : No data available  
Chemical stability : No data 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 (CO<sub>2</sub>)

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## Section 11: Toxicological information

### Acute toxicity

#### Product:

Acute oral toxicity : Acute toxicity estimate (ATE): 511,01 mg/kg  
Method: Calculation method  
Acute inhalation toxicity : Acute toxicity estimate (ATE): 30 mg/l  
Exposure time: 4 h

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Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate (ATE): 2.048 mg/kg  
Method: Calculation method

## **Components:**

### **2-(2-butoxyethoxy)ethanol:**

Acute oral toxicity : LD50 (Rat, male): 6.560 mg/kg  
Method: Tested according to Annex V of Directive 67/548/EEC.  
Assessment: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rabbit, male): 2.764 mg/kg  
Method: OECD 402  
Assessment: No adverse effect has been observed in acute toxicity tests.

### **Propetamphos:**

Acute oral toxicity : LD50 (Rat): 62 mg/kg  
Assessment: The component/mixture is toxic after single ingestion.

Acute dermal toxicity : LD50 (Rat): 564 mg/kg  
Assessment: The component/mixture is toxic after single contact with skin.

## **Skin corrosion/irritation**

### **Components:**

#### **2-(2-butoxyethoxy)ethanol:**

Species : Rabbit  
Exposure time : 1 h  
Method : OECD 404  
Result : Mild skin irritation  
GLP : no

## **Serious eye damage/eye irritation**

### **Components:**

#### **2-(2-butoxyethoxy)ethanol:**

Species : Rabbit  
Result : Irritating to eyes.  
Exposure time : 72 h  
Method : OECD 405  
GLP : no

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## Respiratory or skin sensitisation

### Components:

#### 2-(2-butoxyethoxy)ethanol:

Test Type : Skin sensitisation  
Species : Guinea pig  
Method : OECD 406  
Result : Did not cause sensitisation on laboratory animals.

## Chronic toxicity

### Germ cell mutagenicity

#### Components:

#### 2-(2-butoxyethoxy)ethanol:

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

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Application Route: Oral  
Exposure time: Single dose  
Method: OECD 475  
Result: negative

## Reproductive toxicity

### Components:

#### 2-(2-butoxyethoxy)ethanol:

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 1.000 mg/kg  
General Toxicity F1: NOAEL: 500 mg/kg  
Method: OECD 415  
Result: No toxicity to reproduction

## Repeated dose toxicity

### Components:

#### 2-(2-butoxyethoxy)ethanol:

Species : Rat, male and female  
NOAEL : 250 mg/kg  
Application Route : Oral  
Exposure time : 90-day  
Number of exposures : Once daily  
Method : OECD 408

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GLP : yes  
Species : Rat, male and female  
NOAEL : 94 mg/m<sup>3</sup>  
Application Route : inhalation (vapour)  
Exposure time : 90-day  
Number of exposures : 6 hours a day, 5 days per week  
Method : OECD 413  
GLP : yes

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## Section 12: Ecological information

### Ecotoxicity

#### Components:

#### 2-(2-butoxyethoxy)ethanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.300 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD 203  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): >= 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Analytical monitoring: no  
Method: OECD 202  
GLP: yes

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): >= 100 mg/l  
Exposure time: 96 h  
Test Type: Growth rate  
Analytical monitoring: no  
Method: OECD 201  
GLP: yes

Toxicity to microorganisms : EC10 (Activated sludge micro-organism): > 1.995 mg/l  
Exposure time: 0,5 h  
Test Type: Respiration inhibition  
Analytical monitoring: yes  
Method: OECD 209  
GLP: no

Toxic limit concentration (Pseudomonas putida): 255 mg/l  
Exposure time: 16 h  
Test Type: Cell multiplication inhibition test  
Method: DIN 38412 Part 8

#### Ecotoxicology Assessment

Acute aquatic toxicity : slightly hazardous to water



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## Propetamphos:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 0,0145 mg/l  
Exposure time: 48 h

## 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:

#### 2-(2-butoxyethoxy)ethanol:

Biodegradability : aerobic  
Concentration: 100 mg/l  
Biochemical oxygen demand  
Result: rapidly biodegradable  
Biodegradation: > 80 %  
Exposure time: 28 d  
Method: OECD 301 C  
GLP: no

aerobic  
Concentration: 400 mg/l  
Chemical oxygen demand  
Biodegradation: 99 %  
Exposure time: 8 d  
Method: OECD 302B  
GLP: no  
Remarks: Inherently degradable

## Bioaccumulative potential

### Components:

#### 2-(2-butoxyethoxy)ethanol:

Partition coefficient: n-octanol/water : log Pow: 1 (20 °C)  
pH: 7  
Method: OECD 117  
GLP: yes

## Propetamphos:

Partition coefficient: n-octanol/water : log Pow: 3,82

## Mobility in soil

No data available

## Other adverse effects

### Product:

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

### Components:

#### **2-(2-butoxyethoxy)ethanol:**

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).

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### **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**

UN/ID No. : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propetamphos)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

#### **IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propetamphos)  
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.

#### **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## Section 15: Regulatory information

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

### HSNO Approval Number

HSR001948

### 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

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## 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

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 - 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 Develop-

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ment; 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

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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