

# Safety Data Sheet

According to New Zealand, Hazardous Substances and New Organisms Act 1996 (HSNO Act) and Regulations, as amended.

Initial preparation date: 02.21.2019

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## FLUSAPEX DROPS DIURETIC FOR DOGS AND CATS

### SECTION 1: Identification

#### Product identifier

**Product name:** FLUSAPEX DROPS DIURETIC FOR DOGS AND CATS

**Synonyms:** FLUSAPEX DROPS

**Additional information:** None

#### Recommended use of the product and restriction on use:

**Relevant identified uses:** VETERINARY USE: Diuretic

**Uses advised against:** Not for human use.

**Reasons why uses advised against:** Veterinary product.

#### Manufacturer or supplier details

##### Supplier:

**Dechra Veterinary Products NZ Limited**

PO Box 1604,

Paraparaumu Beach, 5252

New Zealand

Phone: 0800 479 838

Email: [info.nz@dechra.com](mailto:info.nz@dechra.com)

Website: <http://www.dechra.co.nz/>

#### Emergency telephone number:

**National Poisons Centre, New Zealand**

0800 764 766

### SECTION 2: Hazards identification

Not Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand.

HSNO Classification or Subclasses – Physical hazards: Not applicable

HSNO Classification or Subclasses – Health hazards:

Class	GHS Category	HSNO Category
Reproductive toxicity	Category 1B	6.8A

HSNO Classification or Subclasses – Environmental hazards: Not applicable

#### GHS classification:

Reproductive toxicity, category 1B

#### Label elements

**Hazard pictogram(s):**



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**Signal word:** Danger

**Hazard statements:**

H360 May damage fertility or the unborn child

**Precautionary statements:**

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Hazards not otherwise classified:**

None.

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 57-55-6	Propylene glycol	25-35
CAS number: 54-31-9	Frusemide	1.067
CAS number: 111-42-2	Diethanolamine	<0.5
CAS number: 1310-73-2	Sodium hydroxide	<0.1

**Additional information:**

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret under the provisions of Sections 55 (7) of the HSNO Act.

### SECTION 4: First-aid measures

For advice, contact a Poisons Information Center (e.g. phone Australia 131 126, New Zealand 0800 764 766) or a doctor.

**Description of first aid measures**

**General notes:**

Show this Safety Data Sheet to the doctor in attendance.

**After inhalation:**

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

**After skin contact:**

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

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### After eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

### After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

### Most important symptoms and effects, both acute and delayed:

#### Acute symptoms and effects:

No significant acute effects/symptoms.

#### Delayed symptoms and effects:

Long term exposure to 2,2'-iminodiethanol and Furosemide may damage fertility or the unborn child. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior, infertility, pregnancy outcome, intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

### Immediate medical attention and special treatment:

#### Specific treatment:

Not determined or not applicable.

#### Notes for the doctor:

Treat symptomatically.

#### Workplace Facilities:

No additional information.

## SECTION 5: Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire.

#### Unsuitable extinguishing media:

Do not use water jet.

### Specific hazards during fire-fighting:

May evolve carbon oxides and hydrocarbons when heated to decomposition.

### Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

### Hazchem or Emergency Action Code:

Not Applicable.

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### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

#### Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

#### Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

#### Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

### SECTION 7: Handling and storage precautions

#### Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Pregnant women should not use or handle this product.

#### Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep out of reach of children. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

Storage Temperature: Store below 30°C

#### Safe packaging material

##### Suitable material:

Not determined or not applicable.

##### Unsuitable material:

Not determined or not applicable.

### SECTION 8: Exposure controls and personal protection

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
New Zealand	Propylene glycol	57-55-6	8-Hour TWA: 10 mg/m <sup>3</sup> (particulates only)
	Propylene glycol	57-55-6	8-Hour TWA: 474 mg/m <sup>3</sup> ([150 ppm] total vapour and particulates)
	Diethanolamine	111-42-2	8-Hour TWA: 13 mg/m <sup>3</sup> [3 ppm]

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
New Zealand	Sodium hydroxide	1310-73-2	Ceiling: 2 mg/m <sup>3</sup>

### Biological limit value:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable

### Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Personal protection equipment

#### Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

### General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and chemical properties

Appearance	Clear liquid
Colour	Not determined or not available.
Odour	Slight odour
Odour threshold	Not determined or not available.
pH	7.8 – 8.8
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Flammability (solid, gas)	Non-flammable
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.

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Vapour pressure	Not determined or not available.
Vapour density	Not determined or not available.
Relative density	1.03
Solubilities	Soluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Particle characteristics	Not determined or not available.

Other information: No data available.

### SECTION 10: Stability and reactivity

#### Reactivity:

Not reactive under recommended handling and storage conditions.

#### Chemical stability:

Stable under recommended handling and storage conditions.

#### Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, moisture and incompatible materials.

#### Incompatible materials:

Incompatible with oxidizing agents (e.g. hypochlorites), acids (e.g. nitric acid) and alkalis (e.g. sodium hydroxide).

#### Hazardous decomposition products:

May evolve carbon oxides and hydrocarbons when heated to decomposition.

### SECTION 11: Toxicological information

#### Acute toxicity:

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Route	Result
Diethanolamine	oral	LD50 Rat: 1100 mg/kg
Propylene glycol	oral	LD50 Rat: 22,000 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rabbit: > 44.9 mg/L (4hr [vapour])
Frusamide	oral	LD50 Rat: 2600 mg/kg
Sodium hydroxide	dermal	LD50 Rabbit: 1350 mg/kg
	oral	LD50 Rat: 325 mg/kg

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## Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

### Substance data:

Name	Result
Diethanolamine	Causes skin irritation.
Sodium hydroxide	Causes severe skin burns.

## Serious eye damage/irritation:

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

### Substance data:

Name	Result
Diethanolamine	Causes serious eye damage.
Sodium hydroxide	Causes serious eye damage.

## Respiratory or skin sensitization:

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

## Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

## International Agency for Research on Cancer (IARC):

Name	Result
Furosemide	Group 3
Diethanolamine	Group 2B

## Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

## Reproductive toxicity

### Assessment:

May damage fertility or the unborn child.

**Product data:** No data available.

### Substance data:

Name	Result
Diethanolamine	Suspected of damaging fertility or the unborn child.
Furosemide	May damage fertility or the unborn child.

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### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Result
Diethanolamine	May cause respiratory irritation.
Sodium hydroxide	May cause respiratory irritation.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Result
Diethanolamine	May cause damage to organs through prolonged or repeated exposure.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Information on likely routes of exposure:

Inhalation; Ingestion; Skin contact; Eye contact

### Symptoms related to the physical, chemical and toxicological characteristics:

Refer section 4 of this SDS.

### Other information:

No data available.

## SECTION 12: Ecological information

### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Result
Diethanolamine	Fish LC50 Oncorhynchus mykiss: 460 mg/L (96 hr)
	Aquatic Invertebrates EC50 Ceriodaphnia dubia: 30.1 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: 9.5 mg/L (72 hr [growth rate])
Sodium hydroxide	Aquatic Invertebrates EC50 Ceriodaphnia sp.: 40.4 mg/L (48 hr [immobilization])
	Fish LC50 Fish: 196 mg/L (96 hr)
Propylene glycol	Fish LC50 Oncorhynchus mykiss: 51,600 mg/L (96 hr)
	Aquatic Plants EC50 Raphidocelis subcapitata: 19000 mg/L (96 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: 43,500 mg/L (48 hr [Immobilisation])



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### Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Result
Diethanolamine	Aquatic Invertebrates NOEC Daphnia magna: 0.78 mg/L (21 d [reproduction])
Propylene glycol	Aquatic Invertebrates NOEC Ceriodaphnia sp.: 13020 mg/L (7 d [reproduction])

### Persistence and degradability

**Product data:** No data available.

#### Substance data:

Name	Result
Diethanolamine	The substance is readily biodegradable. 93% degradation in water, measured by O consumption, after 28 days.
Sodium hydroxide	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
Propylene glycol	The substance is readily biodegradable. 81.7% degradation in water, measured by CO <sub>2</sub> evolution, after 28 days.

### Bioaccumulative potential

**Product data:** No data available.

#### Substance data:

Name	Result
Diethanolamine	The substance is not expected to bioaccumulate ( BCF= 9.16 L/kg & log Pow= - 2.46 at 25 °C).
Sodium hydroxide	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.
Propylene glycol	The substance is not expected to bioaccumulate (BCF: 0.09).

### Mobility in soil

**Product data:** No data available.

#### Substance data:

Name	Result
Diethanolamine	The substance is expected to be highly mobile, therefore, adsorption to soil is not expected (calculated log Koc= 1).
Sodium hydroxide	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.
Propylene glycol	The substance is highly mobile, therefore, adsorption to soil is not expected (calculated Koc: 2.9).

### Hazard to the ozone layer

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

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## SECTION 13: Disposal considerations

### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

### Contaminated packages:

Not determined or not applicable.

### Disposal methods that should not be used:

No additional information.

## SECTION 14: Transportation information

### Road/Rail transport: (NZS 5433:1999)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Air Transport Association Dangerous Goods Regulations (IATA-ICAO)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not Applicable

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## SECTION 15: Regulatory information

**New Zealand Inventory of Chemicals (NZIoC):** All Ingredients are listed.

**HSNO Classification or Subclasses:**

Class	GHS Category	HSNO Category
Reproductive toxicity	Category 1B	6.8A

HSNO Group Standard Name:	HSNO Approval Number:
Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard 2017	HSR100757

**HSNO Controls:** Not determined.

**Approved handler test certificate:** Not determined.

**Tracking:** Not determined.

**Controlled substance license requirements:** Not applicable.

**Agricultural Compounds and Veterinary Medicines Act 1997:**

ACVM number	
	A007556

**Montreal Protocol (Ozone Depleting Substances):** None of the ingredients are listed.

**Stockholm Convention (Persistent Organic Pollutants):** None of the ingredients are listed.

**Rotterdam Convention (Prior Informed Consent):** None of the ingredients are listed.

**Basel Convention (Hazardous Waste):** None of the ingredients are listed.

## SECTION 16: Other information

**Abbreviations and Acronyms:**

ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
EC50	Effective Concentration of 50%
GHS	Globally Harmonized System
HSNO	Hazardous Substances and New Organisms
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MARPOL	International Convention for the Prevention of Pollution from Ships
NZIoC	New Zealand Inventory of Chemicals
TWA	Time Weighted Average
UN	United Nations
VOC	Volatile Organic Compounds

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## Disclaimer:

The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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## Revision Notes:

Revision date	Notes
02-23-2024	Version 2; Supersedes Version 1 dated 2019-02-21

**End of Safety Data Sheet**