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#### Section 1 – Identification of the substance/preparation and the company

**Product Name:** Epripor X

Donaghys Ltd Company:

16 Sheffield Crescent Address:

PO Box 20 449 Christchurch

**Telephone Number:** 0800 942 006

**Manufacturer Product Code:** AECA0065 / AECA0020

**Recommended Use:** Broad spectrum pour-on endectocide for cattle. For the

treatment & control of all gastrointestinal roundworms,

lungworms and sucking lice in Cattle

#### Section 2 - Hazard Identification

**GHS Classifications:** Skin irritation Category 2

Eye irritation Category 2

Reproductive toxicity Category 1

Effects on or via lactation

Hazardous to the aquatic environment chronic Category 1 Hazardous to the aquatic environment chronic Category 3

Hazardous to soil organisms Hazardous to terrestrial vertebrates Hazardous to terrestrial invertebrates

**GHS Pictograms:** 







**Hazard Statements:** H315 Causes skin irritation

> H320 Causes eye irritation

H360 May damage fertility or the unborn child H362 May cause harm to breast-fed children

H400 Very toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects

Hazardous to soil organisms

Hazardous to terrestrial vertebrates Hazardous to terrestrial invertebrates

**Prevention Statements:** P103 Read label before use

> P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe mist/vapours/spray.

P263 Avoid contact during pregnancy/while nursing.

Wash thoroughly after handling. P264

P270 Do not eat, drink or smoke when using this product.





**Prevention Statements:** P273 Avoid release to the environment.

(Continued) P280 Wear protective gloves/protective clothing/eye protection.

P281 Use personal protective equipment as required.

**Response Statements:** P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

attention.

P362 Take off contaminated clothing and wash before re-

use.

P305 + P351 IF IN EYES: Rinse cautiously with water for several

+ P338 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical

advice/attention.

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

attention.

P391 Collect spillage.

**Storage:** P405 Store locked up.

Signal word: WARNING

EPA NZ Approval Code: HSR100759

Veterinary Medicines (Non-dispersive Open System Application)

Group Standard 2020

## **Section 3 – Composition Information**

Substance/Mixture: Mixture

 Chemical Entity
 CAS No.
 Content (w/v %)

 1-Methyl-2-pyrrolidone
 872-50-4
 >=10 to <20</td>

 Eprinomectin
 123997-26-2
 >=2.5 to <10</td>

 2,6-Di-tert-butyl-p-cresol
 128-37-0
 >=1.0 to <2.5</td>

#### Section 4 - First Aid Measures

If swallowed: Immediately call a POISON CENTRE or doctor/physician. Have

product container or label on hand.

If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do so, continue

rinsing. Get medical advice/attention.

If on skin Wash with plenty of soap and water. Take off contaminated

clothing. If skin irritation persists: Get medical advice/attention.

**If inhaled:** Remove to fresh air. Get medical advice/attention.

**If exposed or concerned:** Get medical advice/attention.

Advice to Doctor: No information available

If medical advice is needed, have product container or label at hand.

POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)





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Section 5 - Fire-fighting Measures

**Special Protective Equipment:** Self-contained breathing apparatus, face shield or

protective goggles, and neoprene rubber gloves and

boots.

Suitable extinguishing Media: Use water spray, alcohol resistant foam, dry chemical

powder or carbon dioxide

Not suitable extinguishing

Media:

High volume water jet

Special Fire Fighting Methods: Prevent fire extinguishing water from contaminating

surface water or the ground water system

Specific hazards during

firefighting:

Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

#### Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Use with adequate ventilation. No special precautions are 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, saw dust). Place in

closed containers. Check label for proper disposal.

## Section 7- Handling and Storage

Advice on protection against

fire and explosion:

No special protective measures against fire are required.

Advice on safe

handling:

Industrial uses: Avoid formation of aerosol. Use with local exhaust ventilation. Avoid contact with skin, eyes and

exhaust verillation. Avoid contact with skin, eye

clothing.

Hygiene measures: Cleanliness Guidelines (GMP) for manufacturing of drugs

must be observed.

**Conditions for safe storage:** For storage suitable stores with an adequate product

reception volume must be used. During handling local official regulations must be observed in order to avert

contamination of water by the product.





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#### **Section 8 – Exposure Controls/Personal Protection**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis				
1-Methyl-2-pyrrolidone	872-50-4	WES-STEL	75 ppm 309 mg/m3	NZ OEL				
Further information: Skin absorption								
		WES-TWA	25 ppm 103 mg/m3	NZ OEL				
Further information: Skin absorption								
2,6-Di-tert-butyl-p-cresol	128-37-0	WES-TWA	10 mg/m3	NZ OEL				
		TWA (Inhalable fraction and vapor)	2 mg/m3	ACGIH				

Components	CAS- No	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
1-Methyl-2- pyrrolidone	872- 50-4	5-HydroxyN- methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

## 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.





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#### Section 9 - Physical and Chemical Properties

Appearance:LiquidColour:Light yellowFlash point:> 93°CDensity:0.937 g/cm³Decomposition 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:

Conditions to Avoid:

Incompatible materials:

Hazardous decomposition products:

No data available.

Oxidizing agents

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

# Section 11 - Toxicological Information

#### 11.1 Acute Toxicity

**Product** 

Acute oral toxicity Acute toxicity estimate (ATE):1.031 mg/kg

Method: Calculation method

**Components:** 

**1-Methyl-2-pyrrolidone** LD50 (Rat): 3.600 mg/kg. Assessment: The

Acute oral toxicity component/mixture is minimally toxic after single

ingestion.

Acute dermal toxicity LD50 (Rabbit): 8.000 mg/kg

LD50 (Rat): > 5.000 mg/kg. Assessment: No adverse

effect has been observed in acute toxicity tests

**Eprinomectin** 

Acute oral toxicity LD50 (Rat, female): 55 mg/kg

2,6-Di-tert-butyl-p-cresol

Acute oral toxicity LD50 (Rat): > 5.000 mg/kg. Method: OECD 401.

Assessment: No adverse effect has been observed in

acute toxicity tests.

Acute dermal toxicity LD50 (Rat): > 5.000 mg/kg Method: OECD 402

### 11.2 Skin corrosion/Irritation

Components

**1-Methyl-2-pyrrolidone** Species: Rabbit

Assessment: Causes skin irritation.

Result: Skin irritation

**2,6-Di-tert-butyl-p-cresol** Result: Mild skin irritation

IN CASE OF EMERGENCY PHONE

National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)





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#### 11.3 Serious eye damage/eye irritation

Components

**1-Methyl-2-pyrrolidone** Species: Rabbit Result: Irritating to eyes.

Assessment: Causes serious eye irritation.

11.4 Respiratory or skin sensitization

Components

**1-Methyl-2-pyrrolidone** Test Type: Skin sensitisation

Remarks: Did not cause sensitisation on laboratory animals

**2,6-Di-tert-butyl-p-cresol** Test Type: Skin sensitisation

Species: Human experience

Result: Does not cause skin sensitisation.

11.5 Chronic toxicity

11.5.1 Germ cell mutagenicity

Components

1-Methyl-2-pyrrolidone

Genotoxicity in vitro Test Type: Bacterial mutagenicity

Result: No indication of mutagenic effects

Genotoxicity in vivo Remarks: In vivo tests did not show mutagenic effects

2,6-Di-tert-butyl-p-cresol

Genotoxicity in vitro Test Type: Ames test

Test system: Bacteria Result: negative

Genotoxicity in vivo Test Type: Micronucleus test

Cell type: mammalian cells

Result: negative

Test Type: In vivo cytogenetic Test

Cell type: mammalian cells

Result: negative

11.5.2 Reproductive toxicity

Components

1-Methyl-2-pyrrolidone

Reproductive toxicity -

Assessment

Clear evidence of adverse effects on development, based on

animal experiments.

Eprinomectin

Reproductive toxicity -

Assessment

Some evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Effects on or via lactation

11.6 STOT - single exposure

Components

**1-Methyl-2-pyrrolidone** Assessment: May cause respiratory irritation.





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11.7 STOT - repeated exposure

Components

**Eprinomectin** Assessment: May cause damage to the blood system through

prolonged or repeated exposure.

11.8 Repeated dose toxicity

Components

**2,6-Di-tert-butyl-p-cresol** Species: Rat NOAEL: 25 mg/kg

Application Route: Oral Exposure

Time: 28-day

**Further information** 

Components

**1-Methyl-2-pyrrolidone** Remarks: Dermal absorption possible

## **Section 12 - Ecological Information**

#### **12.1 Ecotoxicity**

Components:

1-Methyl-2-pyrrolidone

Toxicity to fish LC50 [Leuciscus idus (Golden orfe)]: > 500 mg/l

Exposure time: 96 h

Test Type: Acute Fish toxicity

Toxicity to daphnia and other

aquatic invertebrates

LC50 (Daphnia magna [Water flea)]: >1.000 mg/l Exposure time: 24 h

Toxicity to algae EC50 (Desmodesmus subspicatus [green algae)]: > 500 mg/l

Exposure time: 72 h

Toxicity to microorganisms EC20: > 600 mg/l

Exposure time: 0.5 h Method: OECD 209

**Ecotoxicology Assessment** 

Acute aquatic toxicity Slightly water endangering

**Eprinomectin** 

Toxicity to daphnia and other

EC50 [Daphnia (water flea)]: 0,00045 mg/l Exposure time: 48 h

aquatic Invertebrates 0,0004 M-Factor (Acute aquatic toxicity) 1.000

in racior (ricato aquatio toxicity)

**Ecotoxicology Assessment** 

Very toxic to aquatic life.

Chronic aquatic toxicity Very toxic to aquatic life with long lasting effects.

2,6-Di-tert-butyl-p-cresol

Acute aquatic toxicity

Toxicity to fish LC0 [Danio rerio (zebra fish)]: > 0,57 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic Invertebrates

EC50 [Daphnia magna (Water flea)]: 0,61 mg/l

Exposure time: 48 h

Method: OECD 202

Toxicity to algae IC50 (Desmodesmus subspicatus [green algae)]: > 0,4 mg/l

Exposure time: 72 h Method: OECD 209





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M-Factor (Acute aquatic toxicity) 1

Toxicity to daphnia and other aquatic Invertebrates (Chronic 0,316 mg/l Exposure time: 21 d

toxicity) Test Type: Immobilization

Method: OECD 202

**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:

1-Methyl-2-pyrrolidone:

Biodegradability Result: Readily biodegradable.

Biodegradation: > 90 % Method: OECD 301E

Biochemical Oxygen Demand 2 mg/g

(BOD) Incu

Incubation time: 5 d

Chemical Oxygen Demand (COD) 1.600 mg/l ThOD 1.939 mg/g

**Eprinomectin:** 

Biodegradability Result: Not rapidly biodegradable

2,6-Di-tert-butyl-p-cresol:

Biodegradability Result: Not readily biodegradable.

Biodegradation: 4,5 % Exposure time: 28 d Method: OECD 301 C Biodegradation: 30 % Exposure time: 14 d Method: OECD 302C

12.2 Bioaccumulative potential

Components

1-Methyl-2-pyrrolidone

Partition coefficient noctanol/water log Pow: -0.46

**Eprinomectin** 

Bioaccumulation Remarks: The product may be accumulated in organisms.

2,6-Di-tert-butyl-p-cresol

Bioaccumulation Bioaccumulative potential

Partition coefficient noctanol/water log Pow: 5,1

12.3 Mobility in soil No data available

12.4 Other adverse effects

**Product:** 

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





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#### Components

2,6-Di-tert-butyl-p-creso

Adsorbed organic bound halogens Remarks: Product does not contain any organic halogens.

(AOX)

Additional ecological information Do not allow to enter surface waters or ground water.

# 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 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (EPRINOMECTIN)

Class 9
Packing group III
Labels 9
Packing instruction (cargo aircraft) 964
Packing instruction (passenger aircraft) 964
Environmentally hazardous Yes

**IMDG-Code** 

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (EPRINOMECTIN)

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

#### Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for

the substance or mixture:

No statements available

ACVM Registration Number: A011688

See <a href="https://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions

**EPA NZ Registration Code:** HSR100759

See <a href="http://www.epa.govt.nz">http://www.epa.govt.nz</a> for approval conditions





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**HSNO Controls** Approved handler certificate required.

HSNO tracking required.

Refer to EPA user guide for 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 Preven- tion; 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 - SelfAccelerating 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 ACGIH : USA. ACGIH Threshold Limit Values (TLV) ACGIH BEI: ACGIH - Biological Exposure Indices (BEI) NZ OEL: New Zealand. Workplace Exposure Standards for Atmospheric Contaminants ACGIH / TWA: 8-hour, time-weighted average NZ OEL / WES-TWA: Workplace Exposure Standard - Time Weighted average NZ OEL / WES-STEL : Workplace Exposure Standard -Short-Term Exposure Limit 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. NZ / EN