



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

Product Name:	Epripor X
Company:	Donaghys Ltd
Address:	16 Sheffield Crescent 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
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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. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

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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
Eprinomectin	123997-26-2	>=2.5 to <10
2,6-Di-tert-butyl-p-cresol	128-37-0	>=1.0 to <2.5

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 (CO₂)

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 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/m ³	NZ OEL
Further information: Skin absorption				
		WES-TWA	25 ppm 103 mg/m ³	NZ OEL
Further information: Skin absorption				
2,6-Di-tert-butyl-p-cresol	128-37-0	WES-TWA	10 mg/m ³	NZ OEL
		TWA (Inhalable fraction and vapor)	2 mg/m ³	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.

**Section 9 – Physical and Chemical Properties**

Appearance:	Liquid
Colour:	Light yellow
Flash point:	> 93°C
Density:	0.937 g/cm ³
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 (CO ₂)

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 component/mixture is minimally toxic after single ingestion.
Acute oral toxicity

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

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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 aquatic Invertebrates

EC50 [*Daphnia* (water flea)]:

0,00045 mg/l Exposure time: 48 h

M-Factor (Acute aquatic toxicity)

1.000

Ecotoxicology Assessment

Acute aquatic toxicity

Very toxic to aquatic life.

Chronic aquatic toxicity

Very toxic to aquatic life with long lasting effects.

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

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 toxicity)

NOEC [Daphnia magna (Water flea)]:
0,316 mg/l Exposure time: 21 d
Test Type: Immobilization
Method: OECD 202

Ecotoxicology Assessment

Acute aquatic toxicity
Chronic aquatic toxicity

Very toxic to aquatic life.
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 (BOD)

2 mg/g
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



Components

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

Adsorbed organic bound halogens (AOX) Remarks: Product does not contain any organic halogens.
 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 www.foodsafety.govt.nz for registration conditions

EPA NZ Registration Code: HSR100759
 See <http://www.epa.govt.nz> for approval conditions

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