



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

HSNO Classifications: 6.3A, 6.4A, 6.8A, 6.8C, 9.1A, 9.1C, 9.2C, 9.3C, 9.4A

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

Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious 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
H423 - Harmful to the soil environment
H433 - Harmful to terrestrial vertebrates
H441 - Very toxic 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.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection.
P281 - Use personal protective equipment as required.

Signal word: DANGER

EPA NZ Approval Code: HSR100759 (Group Standard 2020)

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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

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

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 ₂)

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Use with adequate ventilation. No special precautions 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.

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**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.

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**IN CASE OF EMERGENCY PHONE****National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)**

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
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Components:

1-Methyl-2-pyrrolidone Acute oral toxicity	LD50 (Rat): 3.600 mg/kg. Assessment: The component/mixture is minimally toxic after single ingestion.
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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

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.

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

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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
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	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 (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

EPA NZ Registration Code: HSR100069

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



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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 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 - 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

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