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

Address : 16 Sheffield Crescent

PO Box 20 449 Christchurch

Telephone Number : 0800 942 006 **Manufacturer Product** : AECA0065

Code

ACVM No : A010357

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

Hazard Classes



6.3A Causes skin irritation 6.4A Causes serious eve irritation 6.8A May damage fertility or the unborn May cause harm to breast fed 6.8C children Very toxic to aquatic life with long 9.1A lasting effects Harmful to aquatic life with long 9.1C lasting effects 9.2C Harmful to the soil environment 9.3C Harmful to terrestrial vertebrates

9.4A 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.

EPA NZ Approval Code : HSR100069

Signal word : DANGER





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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</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

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

Section 5 – Fire-fighting Measures

Special Protective

Equipment

Suitable extinguishing

Media

: Self contained breathing apparatus, face shield or protective

goggles, and neoprene rubber gloves and boots

: 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

fire-fighting

: 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 required.

Environmental Precautions:

: Do not flush into surface water or sanitary sewer system

Mathadaaaa

Methods and : Suppress (knock down) gases/vapours/mists with a water

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materials for containment and

cleaning up

spray jet. Soak up with inert absorbant material (e.g.sand, silica gel, acid binder, universal binder, saw dust) Place in closed containers.

Label for proper disposal.

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 Hygiene measures

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

: 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 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/m3	NZ OEL			
Further information: Skin absorption							
		WES-TWA	25 ppm 103 mg/m3	NZ OEL			
	Further informati	on: Skin absorpti	on				
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





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Personal protective equipment

Respiratory protection : Recommended respiratory protection: full mask with

filter ABEK-ST (ABEK-P3)

: Hand protection: protective gloves for chemicals made **Hand protection Material**

of Baypren, nitrile rubber or PVC wear

: Breakthrough time not tested; dispose of immediately Remarks

after contamination. Advice: The gloves should not be reused

Eye protection : Safety glasses

: No special safety precautions are required during handling of **Protective measures**

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 pharmaceutials 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 : > 93°C Flash point : 0.937 g/cm³ **Density** Decomposition : No data available

temperature

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**

: Carbon monoxide (CO) Carbon dioxide (CO₂) products

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

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Acute oral toxicity : LD50 (Rat): 3.600 mg/kg. Assessment: The

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

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

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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 - : Clear evidence of adverse effects on

Assessment 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

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Toxicity to daphnia and other

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

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)]:

aquatic Invertebrates 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 : EC50 [Daphnia magna (Water flea)]:

aquatic Invertebrates 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

: 2 mg/g (BOD)

Incubation time: 5 d

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

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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 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.

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Section 14 - Transport Information

International Regulations

IATA-DGR

UN/ID No. : UN 3082

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Proper shipping name

LIQUID, N.O.S. (EPRINOMECTIN)

Class : 9 Packing group : 111 Labels : 9 Packing instruction (cargo aircraft) : 964 Packing instruction (passenger : 964

aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (EPRINOMECTIN)

Class Packing group : 111 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: No statements available. regulations/legislation specific

for the substance or mixture

HSNO Approval Number : 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

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

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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