

According to Hazardous Substances (Safety Data Sheets) Notice 2017 and Amendments under New Zealand, Hazardous Substances and New Organisms Act 1996 and Amendments.

**Initial preparation date: 22.05.2019** 

**Revision date:** 25.06.2025

### **FEN-IVERQUANTEL**

#### **SECTION 1: Identification**

**Product identifier** 

**Product name:** FEN-IVERQUANTEL

Synonyms: IVERMECTIN, PRAZIQUANTEL AND FENBENDAZOLE

Recommended use and restriction on use:

**Recommended use:** VETERINARY USE: Endoparasiticide for use in horses.

Restrictions on use: Not for human use.

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

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

# **Emergency telephone number:**

**New Zealand** 

National Poisons Centre

0800 764 766

# **SECTION 2: Hazard identification**

Not Classified as a Dangerous Good according to NZS 5433:2020 Transport of Dangerous Goods on Land.

Classification in accordance with the Hazardous Substances (Hazard Classification) Notice 2020 and GHS Revision 7:

### **Hazard classification:**

Acute toxicity (oral), category 4

Eye irritation, category 2

Reproductive toxicity, category 2

Specific target organ toxicity - repeated exposure, category 2

Acute aquatic hazard, category 1

Chronic aquatic hazard, category 1

#### **Label elements**

# **Hazard pictogram(s):**







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# **Signal word**: Warning **Hazard statements**:

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H302 Harmful if swallowed

H373 May cause damage to organs (liver) through prolonged or repeated exposure

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

# **Precautionary statements:**

P280 Wear protective gloves, protective clothing and eye protection

P201 Obtain special instructions before use

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

P264 Wash any exposed skin thoroughly for 15 minutes after handling

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

P260 Do not breathe mist, vapours or spray.

P273 Avoid release to the environment

P308+P313 If exposed or concerned: Get medical advice and attention

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 Rinse mouth

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice and attention

P314 Get medical attention if you feel unwell.

P391 Collect spillage

P405 Store locked up

P501 Dispose of contents and container in accordance with local regulations

## Hazards not otherwise classified:

None.

# **SECTION 3: Composition/information on ingredients**

#### Mixture:

Identification	Name	Weight %
CAS number:	Fenbendazole	20.5
43210-67-9		
CAS number:	Monopropylene glycol	10-20
57-55-6		
CAS number:	Praziquantel	5.125
55268-74-1		
CAS number:	Triethanolamine	1-5
102-71-6		
CAS number:	Polyacrylic acid	1-5
9003-01-4		
CAS number:	Ivermectin	0.42
70288-86-7		
CAS number:	Anise seed oil	<1
8007-70-3		

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#### **Additional information:**

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret under the provisions of section 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. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

#### 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.

# After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 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:**

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing. Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

# **Delayed symptoms and effects:**

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

Symptoms of exposure may be delayed.

May cause damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

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#### **Immediate medical attention and special treatment:**

#### Immediate medical attention:

Not determined or not applicable.

#### Special treatment:

Not determined or not applicable.

#### Notes for the doctor:

Treat symptomatically.

# **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 arising from the chemical:

May evolve carbon oxides and hydrocarbons when heated to decomposition.

# **Special protective equipment and precautions for firefighters:**

#### **Protective equipment:**

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

#### **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.

#### **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. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. 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.

# Advice on how to contain and clean up a spill or release:

Harmful if swallowed. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Dispose of in accordance with all applicable regulations (see Section 13).

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# **SECTION 7: Handling and storage**

#### Precautions for safe handling:

Carefully read the product label before use. 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.

# Conditions for safe storage, including any incompatibilities:

Keep out of reach of children. Store below 25°C (room temperature), in cool, dry, well-ventilated location out of direct sunlight in an HDPE container. Keep away from food and beverages. Storage areas and containers should be clearly marked for drug holding. 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).

# **SECTION 8: Exposure controls/personal protection**

#### **Occupational Exposure limit values:**

Country	Substance	Identifier	Permissible concentration
(Legal Basis)			
New Zealand	Monopropylene glycol	57-55-6	8-hour TWA: 10 mg/m <sup>3</sup>
			[particulates only]
	Monopropylene glycol	57-55-6	8-hour TWA: 150 ppm (474
			mg/m³) [particulates and vapor]
	Triethanolamine	102-71-6	8-hour TWA: 1 mg/m <sup>3</sup>

#### **Biological limit values:**

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

#### **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 protective 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).

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#### **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**

#### Information on basic physical and chemical properties

Appearance	Opaque pale blue gel
Odour	Aniseed odour
Odour threshold	Not determined or not available.
pH	6.0 to 7.0
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point	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.
Vapour pressure	Not determined or not available.
Vapour density	Not determined or not available.
Relative density	0.95 to 1.06
Solubility(ies)	Not determined or not available.
Partition coefficient: n-octanol/water	Not determined or not available.
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Particle characteristics	Not determined or not available.

Other information: No additional information.

### **SECTION 10: Stability and reactivity**

# **Chemical 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.

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### **Conditions to avoid:**

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

#### **Incompatible materials:**

Oxidising 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:**

Harmful if swallowed.

#### Product data:

Route	Result
Oral ATE	LD50 Rat: 1135.58 mg/kg

#### Substance data:

Name	Route	Result
Ivermectin	Oral ATE	LD50 Rat: 5 mg/kg
	Dermal ATE	LD50 Rabbit: 300 mg/kg
Monopropylene glycol	oral	LD50 Rat: 22,000 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rabbit: > 44.9 mg/L (4hr [vapour])
Polyacrylic acid	oral	LD50 Rat: 1500 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >5.1 mg/L (4h [Vapor])
Triethanolamine	oral	LD50 Rat: 6400 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
Fenbendazole	oral	LD50 Rat: > 10,000 mg/kg

### **Skin corrosion/irritation**

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

Product data: No data available.

#### Substance data:

Name	Result
Polyacrylic acid	Causes skin irritation.
Triethanolamine	Causes skin irritation.

#### Serious eye damage/irritation

# **Assessment:**

Causes serious eye irritation. **Product data:** No data available.

#### Substance data:

Name	Result
Polyacrylic acid	Causes serious eye damage.
Triethanolamine	Causes serious eye irritation.

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### Respiratory or skin sensitization:

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

Product data: No data available.

Substance data:

Name	Result
Anise seed oil	May cause an allergic skin reaction.

# **Carcinogenicity**

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

Product data: No data available.

Substance data:

Name	Species	Result
Anise seed oil		Suspected of causing cancer.

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

Name	Classification
Ivermectin	Group 2A

# Germ cell mutagenicity

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

Product data: No data available.

Substance data:

Name	Result
Anise seed oil	Suspected of causing genetic defects.

### Reproductive toxicity

## **Assessment:**

Suspected of damaging fertility or the unborn child.

Product data: No data available.

Substance data:

Name	Result
Fenbendazole	Suspected of damaging fertility or the unborn child.

# **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
Polyacrylic acid	May cause respiratory irritation.
Triethanolamine	May cause respiratory irritation.

# **Specific target organ toxicity (repeated exposure)**

#### **Assessment:**

May cause damage to organs through prolonged or repeated exposure.

Product data: No data available.

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#### Substance data:

Name	Result
Fenbendazole	May cause damage to organs (liver) 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:

Skin contact, eye contact, inhalation and ingestion.

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

See section 4 of this SDS.

### Other information:

No data available.

# **SECTION 12: Ecological information**

# **Ecotoxicity**

### **Aquatic**

# Acute (short-term) toxicity

### **Assessment:**

Toxic to aquatic life.

Product data: No data available.

#### Substance data:

Name	Result
Monopropylene 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])
Polyacrylic acid	Fish LC50 Oncorhynchus mykiss: 27 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: 47 - 95 mg/L (48 hr [mobility; read-across])
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 0.75 mg/L (72 hr [growth rate; read-across])
Triethanolamine	Fish LC50 Pimephales promelas: 11,800 mg/L (96 hr)
	Aquatic Invertebrates EC50 Ceriodaphnia dubia: 609.88 mg/L (48 hr [mortality])
	Aquatic Plants EC50 Desmodesmus subspicatus: 216 mg/L (72 hr [growth rate])
Fenbendazole	Aquatic Invertebrates EC50 Daphnia magna: 0.0165 mg/L (48 hr [immobilisation])

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# **FEN-IVERQUANTEL**

# **Chronic (long-term) toxicity**

#### **Assessment:**

Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects

Product data: No data available.

#### Substance data:

Name	Result
Monopropylene glycol	Aquatic Invertebrates NOEC Ceriodaphnia sp.: 13020 mg/L (7 d [reproduction])
Triethanolamine	Aquatic Invertebrates NOEC Daphnia magna: 16 mg/L (21 d [mortality])
Fenbendazole	Aquatic Invertebrates NOEC Daphnia magna: 0.00063 mg/L (21 d [growth])

### **Terrestrial**

# **Acute (short-term) toxicity**

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

**Product data:** No data available. **Substance data:** No data available.

# **Chronic (long-term) toxicity**

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

**Product data:** No data available. **Substance data:** No data available.

# Persistence and degradability Product data: No data available.

### Substance data:

Name	Result
Monopropylene glycol	The substance is readily biodegradable. 81.7% degradation in water, measured by CO2 evolution, after 28 days.
Polyacrylic acid	The substance is readily biodegradable. 84.7% degradation, measured by O2 consumption, after 28 days.
Triethanolamine	The substance is readily biodegradable.100% degradation in water, measured by CO2 evolution, after 5 days.

# **Bioaccumulative potential**

Product data: No data available.

#### **Substance data:**

Name	Result
Monopropylene glycol	The substance is not expected to bioaccumulate (BCF: 0.09).
Polyacrylic acid	The substance is not expected to bioaccumulate (BCF= < 3.9 L/kg).
Triethanolamine	The substance has the potential to bioaccumulate (log Kow: 3.85, QSAR substance data).

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# **Mobility in soil**

Product data: No data available.

#### Substance data:

Name	Result
Monopropylene glycol	The substance is highly mobile, therefore, adosrption to soil is not expected (calculated Koc: 2.9).
Polyacrylic acid	The substance is mobile to moderately mobile in soil. Koc: 6 - 137 L/kg [read-across]
Triethanolamine	The substance is slightly mobile, therefore, adsorption to soil and sediment is expected (log Koc= 3.65 dimensionless at 25 °C).
Fenbendazole	The substance is hardly mobile, therefore, there is a high potential for adsorption to soil and sediment (log Koc:4.38, QSAR substance data).

Other adverse effects: No data available.

### **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.

# Special precautions to be taken during disposal:

No additional information.

# Disposal methods that should not be used:

No additional information.

# **SECTION 14: Transportation information**

# Road/Rail transport: (NZS 5433)

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fenbendazole, Ivermectin)
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
	Fenbendazole, Ivermectin
Special precautions for user	None

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

UN number	3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s
	(Fenbendazole, Ivermectin)
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
	Fenbendazole, Ivermectin
Special precautions for user	None
ERG code	9 L
Excepted quantities	E1
Passenger and cargo	450 L
Cargo aircraft only	450 L
Limited quantity	30 Kg G

### **International Maritime Dangerous Goods (IMDG)**

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fenbendazole, Ivermectin)
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
	Fenbendazole, Ivermectin
Special precautions for user	None
EMS number	F-A, S-F
Stowage category	A
Excepted quantities	E1
Limited quantity	5 L

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

# **SECTION 15: Regulatory information**

**New Zealand Inventory of Chemicals (NZIoC):** All of the ingredients are listed or exempt.

**HSNO approval number:** HSR100758

**Group standard title:** Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020.

**HSNO Controls:** Not determined.

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

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**Tracking:** Not determined.

**Controlled substance license requirements:** Not applicable. **Agricultural Compounds and Veterinary Medicines Act 1997:** 

ACVM number A9834

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

#### **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
25-06-2025	Version 3; Supersedes Version 2 (22.07.2024)