

Safety Data Sheet

According to New Zealand, Hazardous Substances and New Organisms Act 1996 (HSNO Act) and Regulations, as amended.

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Initial preparation date: 22.05.2019

Revision date: 22.07.2024

FEN-IVERQUANTEL

SECTION 1: Identification

Product identifier

Product name: FEN-IVERQUANTEL

Synonyms: IVERMECTIN, PRAZIQUANTEL AND FENBENDAZOLE

Recommended use of the product and restriction on use:

Relevant identified uses: VETERINARY USE: Endoparasiticide for use in horses.

Uses advised against: Not for human use.

Reasons why uses advised against: Veterinary product.

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: Hazards identification

Not Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand.

HSNO Classification or Subclasses – Physical hazards: Not applicable

HSNO Classification or Subclasses – Health hazards:

Class	GHS Category	HSNO Category
Acute toxicity (oral)	Category 4	6.1D (oral)
Eye irritation	Category 2A	6.4A
Reproductive toxicity	Category 2	6.8B

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HSNO Classification or Subclasses – Environmental hazards: Not applicable

GHS classification:

Acute toxicity (oral), category 4
Eye irritation, category 2A
Reproductive toxicity, category 2

Label elements

Hazard pictogram(s):



Signal word: Warning

Hazard statements:

H319 Causes serious eye irritation
H361 Suspected of damaging fertility or the unborn child
H302 Harmful if swallowed

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
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
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: 43210-67-9	Fenbendazole	20.5
CAS number: 57-55-6	Monopropylene glycol	10-20
CAS number: 55268-74-1	Praziquantel	5.125

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CAS number: 102-71-6	Triethanolamine	1-5
CAS number: 9003-01-4	Polyacrylic acid	1-5
CAS number: 70288-86-7	Ivermectin	0.42
CAS number: 8007-70-3	Anise seed oil	<1

Additional information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret under the provisions of sections 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).

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Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

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.

Immediate medical attention and special treatment:

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically.

Workplace Facilities:

No additional information.

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 during fire-fighting:

May evolve carbon oxides and hydrocarbons when heated to decomposition.

Special protective equipment for firefighters:

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

Special 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.

Hazchem or Emergency Action Code:

Not Applicable.

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.

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Methods and material for containment and cleaning up:

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).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage precautions

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).

Safe packaging material

Suitable material:

Not determined or not applicable.

Unsuitable material:

Not determined or not applicable.

SECTION 8: Exposure controls and personal protection

Occupational Exposure limit values:

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

Biological limit value:

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

Information on monitoring procedures:

Not determined or not applicable

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Appropriate 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 protection 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).

Respiratory protection:

Not determined or not applicable.

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

Physical state	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 (closed cup)	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
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-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.

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Other information: No additional information.

SECTION 10: Stability and reactivity

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.

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.

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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.

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.

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

Product data: No data available.

Substance data: No data available.

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:

Ingestion, skin and eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

See section 4 of this SDS.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment:

Toxic to aquatic life.

Product data: No data available.

Substance data:

Name	Result
Monopropylene glycol	Fish LC50 <i>Oncorhynchus mykiss</i> : 51,600 mg/L (96 hr)
	Aquatic Plants EC50 <i>Raphidocelis subcapitata</i> : 19000 mg/L (96 hr [growth rate])
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 43,500 mg/L (48 hr [Immobilisation])
Polyacrylic acid	Fish LC50 <i>Oncorhynchus mykiss</i> : 27 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 47 - 95 mg/L (48 hr [mobility; read-across])
	Aquatic Plants EC50 <i>Pseudokirchneriella subcapitata</i> : 0.75 mg/L (72 hr [growth rate; read-across])

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Name	Result
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 Desmodemus subspicatus: 216 mg/L (72 hr [growth rate])
Fenbendazole	Aquatic Invertebrates EC50 Daphnia magna: 0.0165 mg/L (48 hr [immobilisation])

Chronic (long-term) toxicity

Assessment:

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])

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).

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Monopropylene glycol	The substance is highly mobile, therefore, adsorption to soil is not expected (calculated Koc: 2.9).

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Name	Result
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).

Hazard to the ozone layer

Product data: No data available.

Substance data: No data available.

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.

Contaminated packages:

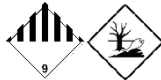
Not determined or not applicable.

Disposal methods that should not be used:

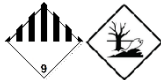
No additional information.

SECTION 14: Transportation information

Road/Rail transport: (NZS 5433:1999)

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

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

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fenbendazole)
UN transport hazard class(es)	9 

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Packing group	III
Environmental hazards	Marine Pollutant Fenbendazole
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

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

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 Classification or Subclasses:

Class	GHS Category	HSNO Category
Acute toxicity (oral)	Category 4	6.1D (oral)
Eye irritation	Category 2A	6.4A
Reproductive toxicity	Category 2	6.8B

HSNO Group Standard Name: Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020	HSNO Approval Number: HSR100758
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HSNO Controls: Not determined.

Approved handler test certificate: Not determined.

Tracking: Not determined.

Controlled substance license requirements: Not applicable.

Agricultural Compounds and Veterinary Medicines Act 1997:

ACVM number	A9834
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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.

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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
22-07-2024	Version 2; Supersedes (Version 1: 22.05.2019)

End of Safety Data Sheet