

Section 1 - Identification of Chemical Product and Company

Norbrook NZ Ltd
KPMG Centre, 18 Viaduct Harbour Ave
Auckland, New Zealand

Freecall: 0800 224 022

Trade Name: Eprizero Pour-On
Product Use: For the treatment and control of internal and external parasites of beef and dairy cattle.
Creation Date: July, 2020
This version issued: November, 2020 and is valid for 5 years from this date.
Poisons Information Centre: Phone 0800 764 766 from anywhere in New Zealand

Section 2 - Hazards Identification

HSNO Approval number: HSR100759

HSNO Hazard Classification: 3.1B, 6.1E, 6.3B, 6.4A, 6.8B, 9.1A, 9.2C, 9.3C, 9.4A

GHS PICTOGRAM:



SIGNAL WORD: Danger

HAZARD STATEMENT:

H225: Highly flammable liquid and vapour.
H303: May be harmful if swallowed.
H316: Causes mild skin irritation.
H320: Causes eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H410: Very toxic 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:

P102: Keep out of reach of children.
P103: Read label before use.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P264: Wash contacted areas thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/eye protection/face protection.
P281: Use personal protective equipment as required.

RESPONSE:

P303 +P361 +P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313: IF exposed or concerned: Get medical advice/ attention.
P332 + P313: If skin irritation occurs: Get medical advice/ attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P370 + P378: In case of fire: Use carbon dioxide, dry chemical, foam, water fog. Alcohol resistant foam is the

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preferred firefighting medium but, if it is not available, fine water spray can be used for extinction.

P391: Collect spillage.

STORAGE:

P405: Store locked up.

P403 + P235: Store in a well-ventilated place. Keep cool.

DISPOSAL:

P501: Dispose of product, packaging and waste at an approved landfill or equivalent facility.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Concentration
Eprinomectin*	133305-88-1, 133305-89-2	5.0 g/L
Other ingredients	secret	35 g/ L
Isopropanol	67-63-0	Balance

* Eprinomectin comprises two isomers with CAS numbers Bla: 133305-88-1 and Blb:133305-89-2.

Section 4 - First Aid Measures

General Information: For advice contact the number is 0800 764 766 in New Zealand and is available at all times. Have this SDS with you when you call.

Inhalation: If inhalation has occurred, and irritation has developed, remove from contaminated area to fresh air and observe until recovered. Do not allow victim to move about unnecessarily. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard.

Eye Contact: Flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Section 5 - Fire Fighting Measures

Flash point: 15°C

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions. Any explosion will likely spread the fire to surrounding materials. Water spray may be used to cool drums involved in a fire, reducing the chances of an explosion. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Fire Fighting Equipment: Use self-contained breathing apparatus and full protective clothing.

Extinguishing Media: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, fine water spray can be used. Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. If a significant quantity of this product is involved in a fire, call the fire brigade.

Section 6 - Accidental Release Measures

Personal Precautions: Use appropriate protective clothing.

Environmental Precautions: Prevent spilled material from entering water ways. Avoid release to the environment.

Methods and Materials for Containment and Cleaning up: In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include Viton, Nitrile. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material

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spreading or going into drains or waterways. Avoid using sawdust or other combustible material. Any electrical equipment should be non-sparking. Any equipment capable of building an electrostatic charge should be electrically grounded. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Certified handler: Not applicable

Tracking: Not applicable

Storage: Store below 30°C, in a dry well ventilated area, out of direct sunlight and make sure that surrounding electrical devices and switches are suitable. Keep away from sources of sparks or ignition. Keep away from open flames/hot surfaces. No smoking. Any electrical equipment in the area of this product should be flame proofed. Handle and open containers carefully. Check containers periodically for leaks. Keep container tightly closed. Containers should be kept closed in order to minimise contamination and possible evaporation. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. If you keep more than 2500 L of Dangerous Goods of Packaging Group II, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging, there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limits:

SWA Exposure Limits	TWA (mg/m³)	STEL (mg/m³)
Isopropano	1 983	1230

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Engineering Controls: Normal room ventilation is sufficient.

Ventilation: Make sure that the work environment remains clean.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered.

Protective Material Types: We suggest that protective clothing be made from the following materials: Viton, nitrile.

Respirator: In case of inadequate ventilation wear respiratory protection.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties

Appearance:	A clear very light yellow solution.
Odour:	Characteristic odour.
Odour threshold:	No data

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pH:	No data
Melting Point/Freezing point:	No data. Liquid at normal temperatures.
Initial boiling point and boiling range:	About 90°C at 100kPa
Flash point:	15°C
Flammability (solid, gas):	No data
Upper/lower flammability or explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	0.79-0.87
Solubility (ies):	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Keep away from sources of sparks or ignition. Keep away from open flames/hot surfaces. No smoking. Any electrical equipment in the area of this product should be flame proofed. Handle and open containers carefully. Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.

Incompatibilities: Oxidising agents.

Fire Decomposition: Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Section 11 - Toxicological Information

Acute toxicity:

Eprinomectin: Oral LD50: 55 mg/kg bw (rat)

Isopropanol: Oral LD50: 3600 mg/kg (mouse)

Aspiration hazard: No data

Respiratory irritation: No data

Skin corrosion/irritation: Isopropanol: Mildly irritating to the skin (rabbit)

Serious eye damage/ irritation: Isopropanol: Irritating to the eye (rabbit)

Respiratory or skin sensitisation: No data

Germ cell mutagenicity: No data

Carcinogenicity: No data

Reproductive toxicity: Eprinomectin: Suspected human reproductive or developmental toxicants

Specific organ toxicity: Eprinomectin: Toxic to human target organs or systems

Narcotic effects: No data

Section 12 - Ecological Information

Aquatic: Eprinomectin:

Fish/ Bluegill, EC50: 0.37 mg/L

Crustacean/ Daphnia, EC50: 0.45 ug/L (= 0.00045 mg/l)

Algal/ Lemna minor, 168 hr, EC50: 0.42 mg/L

Terrestrial: Eprinomectin:

LD50: 24 mg/kg (mallard duck)

LD50 (contact): 0.002 ug/bee

Persistence and degradability: Eprinomectin: No

Bioaccumulative: Eprinomectin: Yes

Mobility in soil: Eprinomectin: Very ecotoxic in the soil environment

Other adverse effects: No data

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Section 13 - Disposal Considerations

Disposal: Dispose of product, packaging and waste at an approved landfill or equivalent facility. Avoid release to the environment. Do NOT use container for any other purpose.

Section 14 - Transport Information

UN Number: 1219

UN proper shipping name: Isopropanol (Isopropyl alcohol).

Dangerous goods class and subsidiary risk: 3 - Flammable liquid

UN Packaging Group: II

Environmental hazards: Marine Pollutant

Special precautions when transporting the substance: No information.

Hazchem Code: 2YE

Transport of Dangerous Goods Pictogram:



Section 15 - Regulatory Information

HSNO Approval number: HSR100759

ACVM number: A011414

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

CAS number	Chemical Abstracts Service Registry Number
SWA	Safe Work Australia
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
UN Number	United Nations Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
LD50	Lethal Dose for 50% of test organisms
EC50	Median effective concentration

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

Date of preparation: November, 2020.

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