

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: Noromectin Pour-On for Cattle and Deer

Product Use: For the treatment and control of ivermectin sensitive strains of internal and external parasites in cattle and deer.

This version issued: April, 2025 and is valid for 5 years from this date.

National Poisons Centre: Phone 0800 764 766 from anywhere in New Zealand

Section 2 - Hazards Identification

Hazard Class	Hazard Category	Hazard statement code	Hazard Statement
Flammable liquid	Category 2	H225	Highly flammable liquid and vapour
Acute oral toxicity	Category 4	H302	Harmful if swallowed
Eye irritation	Category 2	H319	Causes serious eye irritation
Reproductive toxicity	Additional effects on or via lactation	H362	May cause harm to breast-fed children
Hazardous to the aquatic environment acute	Category 1	H400	Very toxic to aquatic life
Hazardous to the aquatic environment chronic	Category 1	H410	Very toxic to aquatic life with long lasting effects
Hazardous to soil organisms	-	-	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	-	-	Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates	-	-	Hazardous to terrestrial invertebrates

Signal word Danger

GHS Pictogram



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Precautionary statements:
Prevention

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P240: Ground and bond container and receiving equipment.
- P241: Use explosion-proof [electrical/ventilating/lighting] equipment.
- P242: Use non-sparking tools.
- P243: Take action to prevent static discharges.
- P260: Do not breathe mist.
- P263: Avoid contact during pregnancy and while nursing.
- P264: Wash hands and exposed skin thoroughly after handling.
- P273: Avoid release to the environment.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/clothing and eye/face protection.

Response

- P301 + P312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
- P330: Rinse mouth.
- P303 +P361 +P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
- P337 + P313: If eye irritation persists: Get medical advice/attention.
- P370 + P378: In case of fire: Use carbon dioxide or dry chemical or foam type extinguisher to extinguish.
- P391: Collect spillage.

Storage

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

Disposal

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

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Concentration
Ivermectin	70288-86-7	5 g/L
Isopropanol	67-63-0	774.5 g/L
Other ingredients	secret	balance

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Section 4 - First Aid Measures

General Information: For advice contact the National Poisons Centre 0800 POISON (0800 764 766) in New Zealand and is available at all times. Have this SDS and product label with you when you call. Get medical attention if you feel unwell.

Inhalation: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call the National Poisons Centre or doctor.

Skin Contact: Wash with plenty of water or until chemical is removed. If skin irritation or rash occurs: Get medical attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; Rinse mouth with water. If you feel unwell contact the National Poisons Centre or doctor.

Section 5 - Fire Fighting Measures

Flash point: 12°C

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. 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 or dry chemical or foam to extinguish.

Fire Fighting: 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. Wear protective gloves.

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

Methods and Materials for Containment and Cleaning up:

Minor spills: Clean up and absorb spills with inert material and place in waste containers, labelled for disposal. Contain in a secure location until disposal method is established. Dispose of waste safely.

Major spills: Prevent spillage from entering drains or water ways and call emergency services.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mists. Avoid contact during pregnancy and while nursing. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/clothing and eye/face protection.

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 required

Tracking: Not required

Storage: Store below 25°C. Protect from light. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.

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Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools. Take action to prevent static discharges. 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)

Exposure limits have not been established for any of the significant ingredients in this product.

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.

Engineering Controls: Handle in accordance with good industrial hygiene and safety practice.

Ventilation: Make sure that the work environment remains clean and that mists are minimised.

Eye Protection: Wear safety goggles. Maintain eye wash facilities in work areas.

Skin Protection: Wear protective gloves when handling this product.

Protective Material Types: Protective clothing be made from rubber or PVC.

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**.

Section 9 - Physical and Chemical Properties

Physical Description & Colour:	Clear blue liquid
Odour:	Characteristic alcohol odour
Odour Threshold:	No data
pH:	No data
Melting point/Freezing point:	No data. Liquid at normal temperatures
Initial boiling point and boiling range:	82°C at 100kPa
Flash point:	No data
Flammability (solid, gas):	No data
Upper/Lower flammability or explosive limits:	Upper Flammability Limit: 12.7% (IPA) Lower Flammability Limit: 2.0% (IPA) Autoignition temperature: 399°C (IPA)
Vapour pressure:	No data
Vapour density:	>1
Relative density:	0.8 approximately
Solubility (ies):	Completely soluble in water
Partition coefficient: n-octanol/water:	No data
Auto-ignition temperature:	399°C
Decomposition temperature:	No data
Kinematic viscosity:	No data
Particle characteristics:	No data

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Section 10 - Stability and Reactivity

Reactivity: No data related to reactivity available for this product or its ingredients. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Store below 25°C. Protect from light.

Incompatibilities: Oxidising agents.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced. In the event of fire: see section 5.

Section 11 - Toxicological Information

Data for ingredients

Acute toxicity:

Ivermectin:

Acute Tox. 2

Classification description:

H300: Fatal if swallowed.

Classification key study:

Oral route

Species: Mouse (m)

Endpoint: LD50

Value: 11.6 mg/kg

Acute Tox. 3

Classification description:

H311: Toxic in contact with skin.

Classification key study:

Dermal route

Species: Rabbit

Endpoint: LD50

Value: 406 mg/kg

Skin corrosion/irritation:

No data

Serious eye damage/eye irritation:

Isopropanol:

Classification description:

H319: Causes serious eye irritation.

Eye Irritation

Species: Rabbit

Result: Mild. Graded 4 on scale of 1-10 (10 being the most severe) after 24 hrs.

Respiratory or skin sensitisation:

No data

Germ cell mutagenicity:

No data

Carcinogenicity:

No data

Reproductive toxicity:

Ivermectin:

Effects on or via lactation

Classification description:

H362: May cause harm to breast-fed children.

Specific target organ toxicity-single exposure:

No data

Specific target organ toxicity-repeated exposure:

Ivermectin:

Classification description:

H372: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Oral Route

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The developmental toxicity of ivermectin has been investigated in mice, rats, rabbits, and dogs. The results demonstrated that teratogenic effects (cleft palates in mice, rats, and rabbits; clubbed fore-paws without skeletal alterations in rabbits) were produced only at dose levels similar to those causing severe toxic effects in pregnant animals. The no-observed-effect level for teratogenicity in the most sensitive species and strain, the CF1 mouse, was 0.2 mg/kg b.w./day, while for maternal toxicity it was 0.1 mg/kg b.w./day.

(Ivermectin - WHO Food Additives Series 27) [INCHEM]

Aspiration hazard:**Isopropanol:**

Classification description:

H319: Causes serious eye irritation.

Eye Irritation

Species: Rabbit

Result: Mild. Graded 4 on scale of 1-10 (10 being the most severe) after 24 hrs.

Section 12 - Ecological Information

Data for ingredients**Aquatic:****Ivermectin:**

Aquatic Acute 1

Classification description:

H400: Very toxic to aquatic life.

Fish

Dose Descriptor: LC50

Effect concentration: 0.003 mg/L

Aquatic Invertebrates

Dose Descriptor: LC50

Effect concentration: 0.000025 mg/L

Aquatic Chronic 1

Classification description:

H410: Very toxic to aquatic life with long lasting effects.

Terrestrial:

Hazardous to terrestrial vertebrates

Hazardous to terrestrial invertebrates

Persistence and degradability:**Bioaccumulative:****Ivermectin:**

Bioaccumulation

BCF (aquatic species): 56 dimensionless

Bioaccumulative: No

Lepomis macrochirus

Bluegill BCF = 56

Fresh Water, 28 d, Flow through, Whole fish.

Mobility in soil:

Hazardous to soil organisms

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

UN Number:

1993

UN Proper Shipping Name:

FLAMMABLE LIQUID, N.O.S. (propan-2-ol)

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UN Dangerous Goods Class:	3
UN Packaging Group:	II
Environmental Hazards:	Yes. Marine Pollutant: Yes
Special Precautions When Transporting The Substance:	Read safety instructions, SDS and emergency procedures before handling.
Transport of Dangerous Goods Pictogram:	

Section 15 - Regulatory Information

HSNO Approval number:	Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2020, HSR100759
ACVM Registration number:	A008032

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
GHS:	Globally Harmonized System
HSNO:	Hazardous Substances and New Organisms Act
UN Number:	United Nations Number
SWA:	Safe Work Australia
TWA:	Time Weighted Average
STEL:	Short Term Exposure Limit
LD50:	Lethal Dose for 50% of test organisms
LC50:	Lethal concentration, 50%
EC50:	Effective-concentration
LOEC:	Lowest Observed Effect Concentration
NOAEL:	No Observed Adverse Effect Level
NOEL:	No Observed Effect Level

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

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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.

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