

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: Moxiclear [for Puppies and Small Dogs]

Product Use: For the treatment and control of fleas and worms for dogs.

This version issued: March, 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
Acute oral toxicity	Category 4	H302	Harmful if swallowed
Eye irritation	Category 2	H320	Causes eye irritation
Skin sensitisation	Category 1	H317	May cause an allergic skin reaction
Reproductive toxicity	Category 2	H361	Suspected of damaging fertility or the unborn child
Reproductive toxicity	Effects on or via lactation	H362	May cause harm to breast-fed children.
Specific target organ toxicity (repeated exposure)	Category 2	H373	May cause damage to organs through prolonged or repeated exposure
Aquatic toxicity (acute)	Category 1	H400	Very toxic to aquatic life
Aquatic toxicity (chronic)	Category 1	H410	Very toxic to aquatic life with long lasting effects

Signal word Warning

GHS Pictogram



Precautionary statements:

Prevention

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe mists.
- P263: Avoid contact during pregnancy and while nursing.
- P264: Wash hands and exposed skin thoroughly after handling.

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- P270: Do not eat, drink or smoke when using this product.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves.

Response

- P314: Get medical advice/attention if you feel unwell.
- P321: See first aid instruction on the label.
- P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P330: Rinse mouth.
- P302 + P352: IF ON SKIN: Wash with plenty of water.
- 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.
- P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313: If eye irritation persists: Get medical advice/attention.
- P362 + P364: Take off contaminated clothing and wash it before reuse.
- P391: Collect spillage.

Storage

- P405: Store locked up.

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
Imidacloprid	138261-41-3	100 g/L
Moxidectin	113507-06-5	25 g/L
Other ingredients	secret	balance

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.

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Section 5 - Fire Fighting Measures

Flash point: 107 °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: Use extinguishing media suited to burning materials.

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. Wear protective gloves.

Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

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, and protect from light. Check packaging, there may be further storage instructions on the label.

Store locked up.

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.

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Ventilation: Make sure that the work environment remains clean.

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 colourless to yellow solution
Odour:	No data
Odour Threshold:	No data
pH:	No data
Melting point/Freezing point:	No data
Initial boiling point and boiling range:	211 °C
Flash point:	107 °C
Flammability (solid, gas):	No data
Upper/Lower flammability or explosive limits:	No data
Vapour pressure:	6 Pa at 20 °C
Vapour density:	No data
Relative density:	1.096
Solubility (ies):	No data
Partition coefficient: n-octanol/water:	No data
Auto-ignition temperature:	345 °C
Decomposition temperature:	No data
Kinematic viscosity:	6.83 cSt
Particle characteristics:	No data

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, and protect from light.

Incompatibilities: No information

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:	Imidacloprid:
	Acute Tox.3
	Classification description:
	H301: Toxic if swallowed.

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Oral Route

Species: Mouse (m)

Endpoint: LD50

Value: 130 mg/kg

Inhalation Route

Acute Inhalation: LC < INF > 50 > 5.33 mg/L

Dermal Route

Endpoint: LD50

Value: > 5,000mg/kg bw

Species: male Rat

acute Percutaneous LD50:> 5000 mg/kgbw

Moxidectin:

Acute Tox.2

Classification description:

H300: Fatal if swallowed.

Oral Route

Species: Mouse (f)

Endpoint: LD50

Value: 42 mg/kg

Inhalation Route

Species: Rat

Endpoint: LC50

Value: 3.28 mg/l

Acute Tox.4

(inhalation)

Classification description:

H332: Harmful if inhaled.

Classification key study:

Physical Form: inhalation: dust / mist

Dose Descriptor: LC50

Value: 4.1 mg/L air

Oral Route

Species: Mouse (f)

Endpoint: LD50

Value: 42 mg/kg

Inhalation Route

Species: Rat

Endpoint: LC50

Value: 3.28 mg/l

No data

Skin corrosion/irritation:

Serious eye damage/eye irritation:

Moxidectin:

EYE Irrit. 2

Classification description:

H319: Causes serious eye irritation.

Classification key study:

Skin Irritation

Species: Rabbit

Result: Mild irritation

Eye Irritation

Species: Rabbit

Result: Moderate

Respiratory or skin sensitisation:

No data

Germ cell mutagenicity:

No data

Carcinogenicity:

No data

Reproductive toxicity:

Moxidectin:

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Repr. 2

Classification description:

H361: Suspected of damaging fertility or the unborn child.

Classification key study:

Effect on fertility:

Oral Dose Descriptor: NOAEL

Oral Value: 1.5 mg/kg bw/day

Effect on developmental toxicity:

Oral Dose Descriptor: NOAEL

Oral Value: 1.5 mg/kg bw/day

Moxidectin:

Effects on or via lactation

Classification description:

H362: May cause harm to breast-fed children

**Specific target organ toxicity-
single exposure:**

**Specific target organ toxicity-
repeated exposure:**

Imidacloprid:

STOT Rep. Exp. 2

Classification description:

H373: May cause damage to organs through prolonged or repeated exposure.

Classification key study:

Repeated dose toxicity

Oral Rout

Primary Organ Effected: Hepatotoxicity (liver)

Secondary Organ(s) Effected: Muscle

Moxidectin:

STOT Rep. Exp. 1

Classification description:

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

Classification key study:

Repeated dose toxicity

Oral Route

Endpoint: LOEC

Value: 1.6 mg/kg bw/day

Primary Organ Effected: Neurotoxicity (nervous system)

Secondary Organ(s) Effected: Eyes

Hepatotoxicity (liver)

Renal toxicity (Kidney)

Respiratory system

Aspiration hazard:

No data

Section 12 - Ecological Information

Data for ingredients

Aquatic:

Imidacloprid:

Aquatic Acute 1

Classification description:

H400: Very toxic to aquatic life.

Fish

Dose Descriptor: LC50

Effect concentration: 83 mg/L

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Acute

Species: Rainbow trout(Oncorhynchus mykiss)

Type of exposure:

Duration: 96 hr

Endpoint: LC50

Value: 83 ppm (= 83 mg/l)

Chronic

Species: Rainbow trout

Type of exposure:

Duration:

Endpoint: NOEL

Value: < 1.2 ppm = < 1.2 mg/l

Aquatic Invertebrates

Dose Descriptor: LC50

Effect concentration: 0.038 mg/L

Species: Mysid

Type of exposure:

Duration: 96 hr

Endpoint: LC50

Value: 0.038 PPM (= 0.038 mg/l)

Freshwater Algae And Cyanobacteria

Species: green algae

Duration: 72 h

Endpoint: EC50

Value: 290.7 mg/l

Imidacloprid:

Aquatic Chronic 1

Classification description:

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

Fish

Endpoint: NOEL

Value: < 1.2 mg/L

Acute

Species: Rainbow trout(Oncorhynchus mykiss)

Type of exposure:

Duration: 96 hr

Endpoint: LC50

VALUE: 83 ppm (= 83 mg/l)

Chronic

Species: Rainbow trout

Type of exposure:

Duration:

Endpoint: NOEL

Value: < 1.2 ppm = < 1.2 mg/l

Freshwater Algae And Cyanobacteria

Species: green algae

Duration: 72 h

Endpoint: EC50

Value: 290.7 mg/l

Moxidectin:

Classification description:

H400: Very toxic to aquatic life.

Moxidectin:

Aquatic Chronic 1

Classification description:

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

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Terrestrial:**Imidacloprid:**

Hazardous to terrestrial vertebrates

Hazardous to terrestrial invertebrates

Moxidectin:

Hazardous to terrestrial vertebrates

Hazardous to terrestrial invertebrates

Persistence and degradability:**Imidacloprid:**

Biodegradation in water: not biodegradable

Bioaccumulative:**Imidacloprid: No****Moxidectin: Yes**

Log Kow = 4.766

Mobility in soil:**Imidacloprid:**

Hazardous to soil organisms

Moxidectin:

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:** 3082**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Imidacloprid and Moxidectin).**UN Dangerous Goods Class:** 9**UN Packaging Group:** III**Environmental Hazards:** Marine Pollutant**Special Precautions When** No information**Transporting The Substance:****Transport of Dangerous Goods**
Pictogram:**Section 15 - Regulatory Information****HSNO Approval number:** Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard 2020,
HSR100757**ACVM Registration**
number: A011874**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**SAFETY DATA SHEET**

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. 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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