

SAFETY DATA SHEET

Zoetis New Zealand Limited



Section 1: Identification of the Substance and Supplier

Trade Name:	CYDECTIN® Oral Drench for Sheep
ACVM Registration No.:	A006204
Classification:	Unrestricted
Recommended Use:	Oral ectoparasiticide / endoparasiticide for treatment of gastrointestinal and pulmonary nematodes and itchmite of sheep.
Company Details:	Zoetis New Zealand Limited
Address:	Level 4, 8 Mahuhu Crescent Auckland Central Auckland 1010 New Zealand
Telephone No.:	0800 963 847 (Business Hours)
Emergency Telephone No.:	National Poisons Centre: 0800 POISON (0800 764 766) Emergency Services: In an emergency dial 111
Date of Preparation:	01 July 2019

Section 2: Hazards Identification

Hazard Classification:	6.5B, 6.8B, 6.8C, 9.1A, 9.2C, 9.4C
Priority Identifier(s):	WARNING - KEEP OUT OF REACH OF CHILDREN ECOTOXIC
Secondary Identifier(s):	6.5B May cause an allergic skin reaction. Avoid skin contact. 6.8B Suspected of damaging fertility or the unborn child from repeated oral exposure. 6.8C May cause harm to breast-fed children from repeated oral exposure. 9.1A Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. 9.2C Harmful to the soil environment. 9.4C Harmful to terrestrial invertebrates.

Section 3: Composition / Information on Ingredients

Chemical Identity of Ingredients

Ingredient	CAS No.	Concentration
Moxidectin	113507-06-5	0.1% w/v
Benzyl alcohol	100-51-6	3.8% w/v
Other ingredients determined not to be hazardous.	-	To 100% w/v

This is a commercial product whose exact ratio of components may vary.
Trace quantities of impurities are also likely.

Section 4: First Aid Measures

Necessary First Aid Measures:	<p>For advice contact the National Poisons Centre at 0800 POISON (0800 764 766) or a doctor immediately. If the patient is not breathing begin artificial respiration and seek medical advice immediately. Never give fluids or induce vomiting if a patient is unconscious or convulsing, regardless of injury.</p> <p>Ingestion: DO NOT induce vomiting. If the patient is conscious wash mouth out with water. Do not give anything by mouth to an unconscious person. Seek medical advice immediately.</p> <p>Eye Contact: Flush the eye(s) out with running water for at least 15 minutes. Removal of contact lenses should be done with caution within 5 minutes of exposure. If symptoms develop seek medical advice immediately.</p> <p>Skin Contact: Remove any contaminated clothing and wash the affected area immediately with soap and water. If symptoms develop seek medical advice immediately.</p> <p>Inhalation: Move the patient to fresh air. If symptoms develop seek medical advice immediately.</p>
Poisoning Symptoms:	No specific information is available.
Workplace Facilities:	No specific facilities required. Standard emergency equipment must be available.
Hygiene Practices:	Avoid self-injection, ingestion, contact with skin and eyes, and inhalation of dusts, mists or vapours. Do not eat, drink or smoke while using this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash any protective clothing after use.
Notes for Medical Personnel:	Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Note the nature of this product.

Section 5: Fire-Fighting Measures

Type of hazard:	This product is non-flammable, non-combustible and non-explosive.
Fire Hazard Properties:	This product does not burn. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. It will produce only minor quantities of decomposition products at temperatures normally achieved in a fire. Likely to decompose only after heating to dryness followed by further strong heating. Do not allow fire water to enter waterways.
Regulatory Requirements:	Not applicable.
Extinguishing Media & Methods:	Use dry chemical, foam, carbon dioxide or water to extinguish fires involving this product.
Hazchem Code:	3Z
Recommended Protective Clothing:	During large-scale fire fighting operations wear approved positive pressure, self-contained breathing apparatus and full protective turn-out gear.

Section 6: Accidental Release Measures

Personal Precautions:	Personnel involved in clean-up should wear appropriate personal protective equipment to minimise exposure. This may include eye protection, chemically resistant gloves, boots and overalls.
Environmental Precautions:	Prevent material from entering surface water drains or waterways. If a significant quantity of material enters drains, advise emergency services.
Procedure for Spills:	<ol style="list-style-type: none">1. Non-essential personnel should be evacuated from the affected area.2. Stop leak and contain the source of spill if it is safe to do so. Reposition any leaking containers to minimise further leakage.3. Absorb the spill with an absorbent material (e.g. sand).4. Collect the spilled material into labelled containers for disposal, minimising dust generation.5. Decontaminate the spill area thoroughly with detergent and water, preventing runoff from entering drains.
Procedure for Disposal:	Contaminated material must be disposed of at an approved landfill or other approved facility in accordance with local, regional and national requirements. Avoid contamination of any water supply with product or empty container.

Section 7: Handling and Storage

Handling

Precautions for Safe Handling:	Keep exposure to this product to a minimum and minimise the quantities kept in work areas. Ensure the personal protective measures outlined in Section 8 are followed, and avoid contact or contamination with incompatible materials listed in Section 10. The measures detailed under "Storage" below should be followed during handling to minimise risks to persons using the product in the workplace.
Regulatory Requirements:	Not required.
Handling Practices:	Avoid ingestion, contact with skin and eyes, and inhalation of dusts, mists or vapours. Do not eat, drink or smoke while handling this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash any protective clothing after use.
Approved Handlers:	Approved handlers are not required for this product.

Storage

Conditions for Safe Storage:	Store below 30°C (Room Temperature). Protect from light. Keep out of reach of children. Store in a well ventilated area in the original container, tightly closed, away from foodstuffs.
Store Site Requirements:	A requirement for an emergency management plan, secondary containment and signage is applicable when quantities of 100 L or more are stored.
Packaging:	Packaging Schedule 3 (UN Packing Group III) for quantities > 5 L (Hazardous Substances Packaging Regulations 2001). Store in the original container, away from foodstuffs.

Section 8: Exposure Control / Personal Protection

Always Read and Follow the Label Instructions and Warnings

Workplace Exposure Guidelines	
Workplace Exposure Standards:	A time weighted average (TWA) concentration for an 8-hour day and a 5-day week has not been established by NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of 10 mg/m ³ for dusts or mists when limits have not otherwise been established.
Application in the Workplace:	The nature of this product makes it unlikely that this level will be approached during normal handling.
Exposure Standards Outside the Workplace:	Moxidectin: <ul style="list-style-type: none">▪ ADE: 0.002 mg/kg bw/day▪ PDE_{food}: 0.0014 mg/kg bw/day▪ PDE_{drinking water}: 0.0004 mg/kg bw per day▪ PDE_{dermal}: 0.0002 mg/kg bw per day▪ TEL_{skin surface deposition}: 0.03 mg/m²▪ EEL_{water}: 0.0000003 mg/L
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
Personal Protection:	<p>The following instructions are for those coming into frequent and / or lengthy contact with this product. For occasional handling employ precautions suitable for the conditions under which the product is being handled.</p> <p>Hands: Impervious protective gloves should be worn when handling this product to prevent irritation. Consult AS/NZS 2161 for guidance.</p> <p>Eyes: Protective eyewear should be worn when handling this product as eye contact may prove painful and dangerous, and should be avoided. Consult AS/NZS 1336 and 1337 for guidance.</p> <p>Skin: Clean overalls or protective clothing, including safety boots, should be worn. Consult AS/NZS 2919 and 2210 for guidance.</p> <p>Respiratory: Respiratory protection is not normally required; however, if the product is being handled in dusty or confined conditions, use of a mask or respirator may be preferred. Consult AS/NZS 1715 for guidance.</p>
General Hygiene:	Change work clothes regularly. Avoid ingestion, contact with skin and eyes, and inhalation of dusts, mists or vapours. Do not eat, drink or smoke while handling this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash any protective clothing after use.

Section 9: Physical and Chemical Properties

Appearance:	Clear, pale yellow aqueous solution
Odour:	Aromatic odour
Specific Gravity / Density:	Approximately 1.0
Freezing / Melting Point:	Approximately 0°C
Boiling Point:	Approximately 106-108°C at 100 kPa
pH:	Approximately 6.2
Solubility in Water:	Soluble.
Flashpoint:	Not applicable. This product is not flammable
Oxidising Properties:	Not applicable. This product is not an oxidiser
Corrosive Properties:	Not applicable. This product is not corrosive
Vapour Pressure:	Not information available.

Section 10: Stability and Reactivity

Stability of the Substance:	This product is unlikely to react or decompose under normal storage conditions.
Conditions to Avoid:	Store as recommended. No specific conditions to avoid.
Material to Avoid:	No specific materials to avoid.
Hazardous Decomposition Products:	This product is unlikely to spontaneously decompose.
Hazardous Polymerisation:	This product is unlikely to spontaneously polymerise.
Specific Data:	No specific data available.

Section 11: Toxicological Information

HSNO Classifications

- | | |
|-------------|--|
| 6.5B | May cause an allergic skin reaction. Avoid skin contact. |
| 6.8B | Suspected of damaging fertility or the unborn child from repeated oral exposure. |
| 6.8C | May cause harm to breast-fed children from repeated oral exposure. |

Acute Effects

Moxidectin:	Moxidectin is a macrocyclic lactone, structurally similar to ivermectin, abamectin and milbemycin. Moxidectin is an acute oral toxin with nervous system effects [LD ₅₀ (oral, mice) 42 mg/kg, LD ₅₀ (dermal) is >2000 mg/kg]. Only mild signs of skin irritation were seen (rabbit, exposure for up to 72 hrs). Moderate eye irritation was noted (rabbit), but signs resolved 48-72 hrs after treatment.
Benzyl alcohol:	Benzyl alcohol is an acute toxin [LD ₅₀ (oral, rabbit) 1040 mg/kg, LD ₅₀ (dermal, rabbit) 2000 mg/kg], an eye irritant and a contact sensitiser.

Chronic / Long Term Effects

Moxidectin: Laboratory rodent reproductive studies reported foetal malformations, decreased number of live births, reduced pup weights and neonatal & lactational deaths [lowest NOEL 0.4 mg/kg/day]. A chronic feeding study (90 days; 0 to 1.6 mg/kg/d) induced toxicity in dogs. At the highest dose lacrimation, tremors, salivation, slight ataxia and a languid appearance were reported. Dose dependant reductions in absolute body weight and food consumption were noted [NOEL 0.3 mg/kg]. In a second study (52 weeks; 0-1.15 mg/kg/d), no signs of toxicity occurred and body weights remained comparable to controls throughout the study [NOEL 1.15 mg/kg]. Moxidectin is not mutagenic or carcinogenic.

Section 12: Ecotoxicity Information

HSNO Classifications

- 9.1A** Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.
- 9.2C** Harmful to the soil environment.
- 9.4C** Harmful to terrestrial invertebrates.

The environmental characteristics of this material have not been fully evaluated.
Avoid contamination of any water supply with product or empty container.

Ecotoxicity Effects

Moxidectin: Moxidectin is very toxic to aquatic life [Bluegill sunfish LC₅₀ (96 hrs) 0.62 ppb; Rainbow trout LC₅₀ (96 hrs) 0.16 ppb; *Daphnia magna* EC₅₀ (48 hrs) 30 ppt; bioaccumulative] and soil life [Dung beetle EC₅₀'s are 2.5677 mg/kg; 0.4693 mg/kg & 0.134 mg/kg. Soil DT₅₀ > 30 days]. Moxidectin is also very toxic to terrestrial vertebrates [LD₅₀ (mice) = 42 mg/kg] and bees [LD₅₀ (oral) = 0.46 ug/bee; LD₅₀ (contact) 0.025 ug/bee].

Benzyl alcohol: Benzyl alcohol is an aquatic toxin [*Lepomis macrochirus* LC₅₀ (96 hrs) 10 mg/L; *Daphnia magna* EC₅₀ (24 hrs) 55 mg/L], but does not bioaccumulate or persist. Also a soil toxin [*Photobacterium phosphoreum* EC₅₀ (5 min) 50 mg/L] and a terrestrial vertebrate toxin based on the lowest acute oral LD₅₀ [LD₅₀ (oral, rabbit) 1040 mg/kg].

Environmental Fate

No information available.

Section 13: Disposal Considerations

Product Disposal: Preferably dispose of product by use in accordance with label directions. Otherwise dispose of product at an approved landfill, or other approved facility in accordance with local, regional and national regulations. Avoid contamination of any water supply with product.

Container Disposal: Dispose of empty containers by wrapping in paper and putting in garbage for disposal at an approved landfill, or other approved facility in accordance with local, regional and national regulations. Avoid contamination of any water supply with empty container.

Section 14: Transport Information

Dangerous Goods Classification

UN No.:	3082
Class:	9
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Moxidectin 0.1%)

The maximum quantity per package of this substance allowed for carriage on public transport is 1 L.

Section 15: Regulatory Information

HSNO Approval No.:	HSR001848
HSNO Controls:	See www.epa.govt.nz for controls
ACVM Registration No.:	A006204
ACVM Controls:	See www.foodsafety.govt.nz for registration conditions

Section 16: Other Information

Note: This product is a veterinary medicine and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT:	Zoetis New Zealand Limited:	0800 963 847 (Business Hours)
	National Poisons Centre:	0800 POISON (0800 764 766)
	Emergency Services:	Dial 111

This Safety Data Sheet 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 should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

PLEASE READ ALL LABELS CAREFULLY BEFORE USING PRODUCT.

If clarification of further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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