

SAFETY DATA SHEET

Zoetis New Zealand Limited
Level 3, 14 Normanby Road, Mt Eden, Auckland



Section 1: Identification of the Substance and Supplier

Trade Name:	DECTOMAX® Pour-On Endectocide
ACVM Registration No.:	A007101
Classification:	Unrestricted
Recommended Use:	Topical endoparasiticide / ectoparasiticide for treatment and extended control of gastrointestinal roundworms and lungworms in cattle. Control of sucking and biting lice and mange mites of cattle.
Company Details:	Zoetis New Zealand Limited
Address:	Level 3,14 Normanby Road Mt Eden Auckland 1024 New Zealand
Telephone No.:	0800 650 277 (Business Hours)
Emergency Telephone No.:	National Poisons Centre: 0800 POISON (0800 764 766) Emergency Services: In an emergency dial 111
Date of Preparation:	13 February 2013

Section 2: Hazards Identification

Hazard Classification:	3.1B, 6.1E, 6.3B, 6.4A, 6.8B, 6.8C, 9.1A, 9.2C, 9.4A
Priority Identifier(s):	DANGER – HIGHLY FLAMMABLE LIQUID AND VAPOUR WARNING – KEEP OUT OF REACH OF CHILDREN ECOTOXIC
Secondary Identifier(s):	3.1B Highly flammable liquid and vapour. Keep away from sources of ignition. 6.1E May be harmful if swallowed, inhaled or absorbed through the skin. 6.3B May cause mild skin irritation. Avoid skin contact. 6.4A May cause eye irritation. Avoid contact with the eyes. 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. 9.4A Very toxic to terrestrial invertebrates.

Section 3: Composition / Information on Ingredients

Chemical Identity of Ingredients

Ingredient	CAS No.	Concentration
Doramectin	117704-25-3	5.0 g/L
Isopropanol	67-63-0	Proprietary
Other ingredients determined not to be hazardous.	-	-

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:	Signs and symptoms of severe isopropanol overexposure include headache, drowsiness and loss of concentration, followed by lowered blood pressure, lowered body temperature, kidney and liver dysfunction, coma and potentially death by respiratory arrest.
Workplace Facilities:	No specific facilities required. Standard emergency equipment must be available.
Hygiene Practices:	Avoid 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:	Highly flammable liquid and vapour. There is no explosion hazard from this material under normal circumstances.
Fire Hazard Properties:	Decomposition products are toxic. There is a significant risk of an explosion from this product is involved in a fire. Heat may cause violent rupture of containers if involved in a fire. Vapours are heavier than air and may accumulate in depressions, sumps and the like. Vapour trails may flash back considerable distances.
Regulatory Requirements:	Not applicable.
Extinguishing Media & Methods:	Use dry chemical, foam, carbon dioxide or water to extinguish fires involving this product.
Hazchem Code:	3[Y]E
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 TWA value of 983 mg/m ³ and an STEL value of 1230 mg/m ³ have been established for one of the significant ingredients in this product. Exposure values at the STEL is an exposure value that should not be exceeded for more 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. Exposure values at the TWA means the average airborne concentration of a particular substance when calculated over a normal 8-hour working day for a 5-day working week.
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:	None set.
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:	Light blue liquid
Odour:	Characteristic odour of isopropanol
Specific Gravity / Density:	0.797
Freezing / Melting Point:	No data available. Liquid at normal temperature.
Boiling Point:	Approximately 82°C (isopropanol)
pH:	No data available
Solubility in Water:	Soluble
Flashpoint:	Approximately 7°C <ul style="list-style-type: none">• Upper Flammability Limit: 12%• Lower Flammability Limit: 2%
Oxidising Properties:	Not applicable. This product is not an oxidiser
Corrosive Properties:	Not applicable. This product is not corrosive
Vapour Pressure:	No data available

Section 10: Stability and Reactivity

Stability of the Substance:	This product is stable under normal conditions of use.
Conditions to Avoid:	Store as recommended. Keep away from extreme heat and open flames.
Material to Avoid:	Strong oxidising agents.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide and smoke (if combustion is incomplete), water.
Hazardous Polymerisation:	This product is unlikely to spontaneously polymerise.
Specific Data:	No specific data available.

Section 11: Toxicological Information

HSNO Classifications

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|-------------|--|
| 6.1E | May be harmful if swallowed, inhaled or absorbed through the skin. |
| 6.3B | May cause mild skin irritation. Avoid skin irritation. |
| 6.4A | May cause eye irritation. Avoid contact with the eyes. |
| 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

Ingestion:	<p>Data suggests the product should be considered to be possibly irritating by ingestion. Oral toxicology data is as follows:</p> <p>Doramectin:</p> <ul style="list-style-type: none"> • LD₅₀ Oral (Rat, male) 1000-2000 mg/kg (in aqueous solution) • LD₅₀ Oral (Rat, male) 500-1000 mg/kg (in sesame oil) • LD₅₀ Oral (Rat, female) 50-100 mg/kg (in aqueous solution) • LD₅₀ Oral (Rat, female) 100-200 mg/kg (in sesame oil) <p>Isopropanol:</p> <ul style="list-style-type: none"> • LD₅₀ Oral (Rat) 5045 mg/kg • LD₅₀ Oral (Mouse) 3600 mg/kg • LD₅₀ Oral (Rabbit) 6410 mg/kg
Skin Contact:	<p>Data suggests that the product should be classified as mildly irritating to the skin. Signs and symptoms after overexposure to isopropanol may include redness, pain and central nervous system depression. Prolonged and repeated skin contact may cause dermatitis due to defatting effect.</p> <p>Doramectin:</p> <ul style="list-style-type: none"> • Irritation Dermal Rabbit Negative <p>Isopropanol:</p> <ul style="list-style-type: none"> • Irritation Dermal Rabbit Mild
Eye Contact:	<p>Data suggests that this product should be classified as irritating to the eyes. Signs and symptoms may include redness, swelling, blurred vision or pain. Serious eye damage or blindness is possible.</p> <p>Doramectin:</p> <ul style="list-style-type: none"> • Irritation Ocular Rabbit Negative <p>Isopropanol:</p> <ul style="list-style-type: none"> • Irritation Ocular Rabbit Severe
Inhalation:	<p>Data suggests that the product should be considered to be considered to be possibly irritating by inhalation. Inhalation may result in irritation of upper respiratory tract. Signs and symptoms include sore throat, coughing, shortness of breath and headache.</p> <p>Isopropanol:</p> <ul style="list-style-type: none"> • LC50-8h Inhalation Rat 16,000 ppm
At Increased Risk from Exposure:	<p>Doramectin has been shown in rats to be excreted in breast milk and, as a result, to cause toxicity in young pups; nursing mothers should exercise caution regarding exposure.</p>

Chronic / Long Term Effects

No specific data is available for the product for chronic exposure symptoms. Signs and symptoms of severe isopropanol overexposure include headache, drowsiness, loss of concentration, lowered blood pressure, lowered body temperature, kidney and liver dysfunction, coma and potentially death by respiratory arrest.

Mutagenicity: No evidence of mutagenicity was observed for doramectin when tested in vitro and in vivo in the following assays: the Ames test, the mouse lymphoma assay, and the unscheduled DNA synthesis (UDS) assay.

Teratogenicity: Embryo mortality was seen in mice but not in rats treated with doramectin. Delayed pubic bone ossification was seen in rabbits. Additional foetal anomalies seen in rabbits at higher doses were thought to be due to maternal toxicity. Isopropanol does not cause developmental or teratogenic effects at high doses.

Carcinogenicity: The carcinogenic potential of a structurally related avermectin, abamectin, has been investigated in rodents. No evidence of carcinogenicity was seen in these studies. Isopropanol was tested for carcinogenicity in mice and rats by inhalation. No increase in tumours was seen in mice. A slight increase in interstitial cell adenomas of the testis was seen in male rats. An increased incidence of cancer of the paranasal sinuses and laryngeal cancer was observed in workers at factories where isopropanol was manufactured by the strong acid process. Investigations into the cancer risk associated with isopropanol occupational exposures did not reveal a significant increase in risk. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May, 1995).

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.
- 9.4A** Very toxic 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

Aquatic Toxicity:	<u>Type:</u>	<u>Species:</u>	<u>Result:</u>
	EC ₅₀ /48h	Daphnia magna	0.1 ppb
	LC ₅₀ /96h	Bluegill Sunfish	11 ppb
	LC ₅₀ /96h	Rainbow Trout	5.1 ppb
	MIC/24-48h	Aspergillus niger	600 mg/L
	MIC/24-48h	Clostridium perfringens	40 mg/L
	MIC/14days	Green Algae	<1 mg/L
	MIC/24-72h	Nostoc	60 mg/L
Toxicity to Birds:	Not applicable.		
Toxicity to Soil Dwelling Organisms:	No information available.		
Acute Toxicity to Bees:	Not applicable.		

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.:	1993
Class:	3
Packing Group:	II
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (Contains isopropanol)

The maximum volume permitted to be transported in a passenger service vehicle: 1 L

Section 15: Regulatory Information

HSNO Approval No.:	HSR001906
HSNO Controls:	See www.epa.govt.nz for controls
ACVM Registration No.:	A007101
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 650 277 (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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