

DONAGHYS SAFETY DATA SHEET

Date: 29/08/2019

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Section 1 – Identification of the substance/preparation and the company

Product Name:	DONAGHYS MOXIPOR POUR-ON
Company:	Donaghys Ltd
Address:	16 Sheffield Crescent PO Box 20 449 Christchurch
Telephone Number:	0800 942 006
Manufacturer Product Code:	
Recommended Use:	For the treatment and control of internal and external parasites of cattle (including lactating dairy cattle) and for the treatment and control of lungworm and roundworms of deer.

Section 2 – Hazard Identification

Hazard Classes:



6.1D	Acute toxicity (oral)
6.5B	Skin irritancy
6.6B	Eye irritancy
6.8B	Reproductive/ developmental
	toxicant
6.8C	Reproductive/ developmental
	toxicant (via lactation)
6.9B	Target organ/ system toxicity
9.1A	Aquatic toxicity
9.3C	Terrestrial vertebrate ecotoxicity
9.4B	Terrestrial invertebrate
	ecotoxicity

EPA NZ Approval Code: HSR100758

Section 3 – Co	mposition Information	
Chemical Entity	CAS No.	Content g/l
Moxidectin	113507-06-5	150 g/L

Remaining ingredients are commercially sensitive and cannot be disclosed in a public document.



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Section 4 – First Aid Measures

General information:	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately. INGESTION: If swallowed seek medical attention. Do NOT induce vomiting. EYES: If splashed in eyes wash out immediately with water. SKIN: If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water. INHALATION: Remove to fresh air. SELF-INJECTION: Seek medical attention.
workplace facilities.	no special facilities required.
Required instructions:	Observe good work practices and avoid skin and eye contact. Wash
	hands and exposed skin before meals and after use. Do not eat or drink while using. Launder protective clothing separately from other clothing, and before each re-use.
Notes for medical personnel:	Apply symptomatic therapy (no specific antidote).
	Note the nature of the product (reproductive/developmental toxin, and sensitizer).

POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)

Fire and explosion hazards:	Non flammable, Non combustible, Non explosive
Suitable extinguishing substances:	Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.
Unsuitable extinguishing substances:	Not known.
Products of combustion:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
Protective equipment:	Sprayed water jet, foam, dry chemical powder, CO_2 and sand.
Hazchem code:	3Z



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S	on 6 – Accidental Release Measures
Emergency W	uitable protective clothing.
procedures: Re	t access to contaminated area.
Co	the spill and prevent further dispersion.
Re	e intact containers from site.
Pi	lamaged containers into containment devices.
At	spills with inert material (e.g. sand or vermiculite), and place in
wa	containers.
W	he area with water and absorb with further inert material. Collect
Sp	material and place in sealable containers for subsequent disposal.
Pr	t contamination of water courses or sewers.
Di	e of waste safely.
Containment for bulk If	er than 100L is stored in one location, secondary containment and
storage: en	ency plans to manage any potential spills must be in place.
Di	of waste safely.
Containment for bulk If g	er than 100L is stored in one location, secondary contain
storage: en	ancy plans to manage any potential spills must be in place
In	ases design storage to prevent discharge to storm-w
dr	. (If this occurs contact your regional council immedi

Section 7– Handling and Storage

Precautions for safe handling:	Apply with well-maintained and calibrated equipment. Handle with care.
Regulatory requirements:	N/A
Approved handler requirements	N/A
Conditions for safe	Store below 25°C. Protect from light. Store locked up and out of reach of
storage:	children
Store site	This substance is subject to a requirement for an emergency
requirements:	management plan, secondary containment and signage, whenever it is held in quantities of 100L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
Packaging:	Packaging Schedule 3 (UN Packing Group III) for quantities >1L (Hazardous Substances Packaging Regulations 2001).

Section 8 – Exposure Controls/Personal Protection

Work place exposure standards: Application in the workplace Exposure standards	N/A Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin and eye contact. TELs and EELs are not set at this time.
Engineering controls:	N/A
Personal protection:	Clothing should consist of overalls with long sleeves, and impervious gloves. Wear eye protection (e.g. glasses, goggles or face shield).
References:	N/A



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Section 9 – Physical and Chemical Properties

Formulation Type:	Liquid
Appearance:	Clear blue-tinted solution
Specific gravity:	1.02 – 1.04 g/mL
Vapour pressure:	N/A
Solubility in water:	Moxidectin is insoluble in water; excipients are partly miscible in water.
Auto ignition temperature:	Not known
Hazards:	Non-flammable; non-corrosive; non-oxidizing; non-explosive.

Section 10 – Stability and Reactivity

Stability of the substance:	Stable under normal conditions of use and storage.
Conditions to avoid:	No specific conditions to avoid
Material to avoid:	No specific materials to avoid.
Hazardous decomposition products:	Hazardous decomposition products are expected when heated to decomposition temperatures. Use appropriate PPE when fighting fires.
Hazardous polymerization:	Components are not expected to form hazardous polymers.
Specific data:	N/A

Section 11 – Toxicological Information

Data and interpretation: Summary data:	Harmful if swallowed. Exposure may cause skin allergy. Moxidectin can affect development of the unborn child and/or reproduction. May cause harm to breast-fed children. <i>Moxidectin</i>
	Refer to EPA website for full details of toxicity classifications:
	http://www.epa.govt.nz/search-databases/Pages/ccid- details.aspx?SubstanceID=747
	Highest classification data included below:
	6.4A SPECIES: Rabbit RESULT: Moderate REFERENCE SOURCE: Fischer J. E. (1990i). Eye irritation study in albino rabbits with AC 301, 423. Unpublished report No. A90-22. Submitted to WHO by American Cyanamid Company, Princeton, NJ, USA. Moxidectin (WHO Food Series 36), Dr K. Woodward, Veterinary Medicines Directorate, Ministry of Agriculture, Fisheries and Food, Addlestone, Surrey, England [INCHEM]



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6.9A (oral) EndPoint: LOEC

Primary Organ: Neurotoxicity (nervous system) In a 90-day study, groups of pure-bred beagle dogs (4/sex/group) were fed diets containing 0, 10, 30 or 60 mg moxidectin/kg of feed, equal to 0, 0.3, 0.9 or 1.6 mg/kg bw/day, for 90 days At the highest dose, lacrimation, tremors, salivation, slight ataxia and a languid appearance were noted. Dose-dependent reductions in absolute body weights and food consumption were noted in dogs given the two highest doses. No other signs were noted and there were no deaths during the test period. No abnormalities in haematological parameters, ophthalmoscopic examinations or urinalyses were seen. Organ weights were comparable with controls except in the high-dose females (decrease in absolute heart weights) and high-dose males (slight decreases in absolute pituitary and pituitary to brain weight ratios). No microscopic abnormalities were seen. The NOEL in this study was 0.3 mg/kg bw/day (Schulze, 1989b). Groups of pure-bred beagle dogs (6/sex/dose) were given diets containing 0, 10, 20 or 45 mg moxidectin/kg of feed, equivalent to 0, 0.26, 0.52 or 1.15 mg/kg bw/day, for 52 weeks. No signs of toxicity occurred and body weights remained comparable to controls throughout the study. There were no abnormalities in haematological parameters, clinical chemistry or urinalyses, and ophthalmoscopic examinations were normal. No gross or microscopic abnormalities were seen at necropsy. The NOEL in this study was 1.15 mg/kg bw/day (Schulze, 1991). Moxidectin (WHO Food Series 36), Dr K. Woodward, Veterinary Medicines Directorate, Ministry of Agriculture, Fisheries and Food, Addlestone, Surrey, England [INCHEM]



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Section 12 - Ecological Information

Data and interpretation: Summary data: Very toxic to aquatic organisms. Harmful to the soil environment. Harmful to terrestrial vertebrates. Harmful to terrestrial invertebrates.

Moxidectin Ecotoxicity to:

9.1A (fish) SPECIES: Rainbow trout TYPE OF EXPOSURE: DURATION: 96 hr ENDPOINT: LC50 VALUE: 0.16 ppb (= 0.00016 mg/l) REFERENCE SOURCE: [Company data]

Bioccumulative: Yes Log Kow = 4.766 [American Cyanamid MSDS No AG09136-3]

Rapidly Degradable: ND 9.1A (crustacean) SPECIES: Daphnia magna TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: EC50 VALUE: 30 ppt (= 0.00003 mg/l) REFERENCE SOURCE: [Company data]

Bioccumulative: Yes Log Kow = 4.766 [American Cyanamid MSDS No AG09136-3]

Rapidly Degradable: ND 9.2A REMARK: Classification based on Company data.

Soil DT 50 > 30 days: yes

BIOSIS COPYRIGHT: BIOL ABS. Avermectins and their metabolites are excreted mainly in the faeces; they do not readily move from the site of dung deposition because of their low solubility in water and their tight binding to organic matter. Avermectins degrade in the environment through photodegradation and aerobic breakdown by soil organisms. Environmental assessment of veterinary avermectins in temperate pastoral ecosystems. Authors: WRATTEN SD FORBES AB Author Address: Dep. Entomol. Anim. Ecol., Lincoln Univ., Canterbury, New Zealand. Source: ANNALS OF APPLIED BIOLOGY; 128 (2). 1996. 329-348. [TOXLINE] SPECIES: Mouse (F) 9.3A ENDPOINT: LD50 VALUE: 42 mg/kg bw REFERENCE SOURCE: Fischer J. E. (1990a). Oral LD50 study in the albino mouse with AC 301, 423. Unpublished report No. A90-45. Submitted to WHO by American Cyanamid Company, Princeton, NJ, USA. [INCHEM]



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9.4A Data for Milbemectin (a milbemycin insecticide):

SPECIES: ENDPOINT: LD50 VALUE: (contact) 0.025 ug/bee REFERENCE SOURCE: [Pesticides Manual] [MF = 10]

Section 13 – Disposal Considerations

	Preferably dispose of the product by its intended use (as a drench).
	If this isn't possible, dispose of product and packaging at an approved
	landfill or other approved hazardous waste disposal facility.
	Avoid contamination of any water source.
	Preferably recycle empty container using a suitable drench container
Disposal information:	recovery program (e.g. AgRecovery: for details visit the site
	http://www.agrecovery.co.nz/programmes/container-recycling)
	If this isn't possible then burn empty container in an appropriate incinerator,
	providing circumstances permit; i.e. suitable wind direction.
	Otherwise crush or puncture and bury in a suitable landfill.
	Do NOT re-use container for any other purpose.

Section 14 – Transport Information		
Relevant information:	Dangerous Goods for transport. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Moxidectin 0.5%) UN Number: 3082 Dangerous Goods Class: 9	
Other requirements:	The maximum quantity per package of this substance allowed for carriage on public transport is 1000L. N/A	

Section 15 – Regulatory Information		
Regulatory status:	Registered pursuant to the ACVM Act 1997, No. A11390 See www.foodsafety.govt.nz for registration conditions This product is an approved substance under the Hazardous Substances	
	and New Organisms Act (HSNO). Approval code: HSR100758. SDS is required for quantities greater than or equal to 0.1L	

Section 16 – Other Information

The information in this MSDS is provided in good faith, but no warranty, expressed or implied is made. Contact Donaghys Ltd for more information.

EMERGENCY CONTACT No.: 0800 764 766 (National Poisons Information Centre)