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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:	AMOXC005 / AMOXC020
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

GHS Classifications:	Flammable liquids Category 4 Reproductive toxicity Category 2 Reproductive toxicity - additional effects on or via lactation Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1 Hazardous to soil organisms Hazardous to terrestrial invertebrates
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GHS Pictograms:



Hazard Statements:	H227 Combustible liquid H361 Suspected of damaging fertility or the unborn child H362 May cause harm to breast-fed children. H410 Very toxic to aquatic life with long lasting effects Hazardous to soil organisms Hazardous to terrestrial invertebrates
Prevention Statements:	P102 Keep out of reach of children. P103 Read label before use. 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. No smoking. P260 Do not breathe mist/vapours/spray. P263 Avoid contact during pregnancy/while nursing. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing. P281 Use personal protective equipment as required.
Response Statements:	P370 + P378 In case of fire: Use water fog, dry chemical powder of CO ₂ to extinguish. P308 + P313 IF exposed or concerned: Get medical advice/attention. P391 Collect spillage.

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Storage: P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Signal Word: WARNING

EPA NZ Approval Code HSR100759
Veterinary Medicines (Non-dispersive Open System Application)
Group Standard 2020

Section 3 – Composition 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.

Section 4 – First Aid Measures

If Swallowed: If swallowed seek medical attention. Do NOT induce vomiting.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical advice/attention.

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before use.

If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call the POISON CENTRE or doctor/physician.

If exposed or if you feel unwell: Call the POISON CENTRE or contact a doctor/physician. If medical advice is needed, have product container or label at hand

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

Section 5 – Fire-fighting Measures

Fire and explosion hazards: Non-flammable, 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, CO₂ and sand.

Hazchem code: 3Z

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Section 6 – Accidental Release Measures
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Emergency procedures:	Wear suitable protective clothing. Restrict access to contaminated area. Contain the spill and prevent further dispersion. Retrieve intact containers from site. Place damaged containers into containment devices. Absorb spills with inert material (e.g. sand or vermiculite), and place in waste containers. Wash the area with water and absorb with further inert material. Collect spilled material and place in sealable containers for subsequent disposal. Prevent contamination of water courses or sewers. Dispose of waste safely.
Protective Equipment:	Wear protective gloves and protective clothing.
Containment for bulk storage:	<p>If greater than 100L is stored in one location, secondary containment and emergency plans to manage any potential spills must be in place.</p> <p>In all cases, design storage to prevent discharge to stormwater drains. (If this occurs contact your regional council immediately).</p>
Environmental Precautions:	Avoid contamination of any water supply with product or empty container. Do NOT flush into surface water or sanitary sewer system. Avoid release to the environment.

Section 7– Handling and Storage
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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 storage:	Store below 25°C. Protect from light. Store locked up and out of reach of children.
Store site requirements:	This substance is subject to a requirement for an emergency 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**

Workplace exposure standards:	N/A
Application in the workplace:	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin and eye contact.
Exposure standards outside the workplace:	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). Keep away from heat/hot surfaces. No smoking. Do not breathe mist/vapours/spray. Do not eat, drink or smoke when using this product. Avoid contact during pregnancy/while nursing.
References:	N/A

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:	Stable under normal conditions of use and storage.
Conditions to Avoid:	No specific conditions to avoid.
Materials to Avoid:	No specific conditions 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

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Section 11 – Toxicological Information

Data and interpretation:

Moxidectin is suspected of damaging fertility or the unborn child. May cause harm to breast-fed children. Avoid contact during pregnancy and while nursing.

Summary data:
Moxidectin

Refer to EPA website for full details of toxicity classifications:
<http://www.epa.govt.nz/search-databases/Pages/cciddetails.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]

6.9A (oral) End Point: 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: Very toxic to the aquatic life with long-lasting effects.
Hazardous to soil organisms. Hazardous to terrestrial invertebrates

Summary data: **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]
Bioaccumulative: 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]
Bioaccumulative: 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 feces; 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]

9.3A SPECIES: Mouse (F)
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]

9.4A Data for Milbemectin (a milbemycin insecticide):
SPECIES:
ENDPOINT: LD50
VALUE: (contact) 0.025 ug/bee
REFERENCE SOURCE: [Pesticides Manual] [MF = 10]

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Section 13 – Disposal Considerations**Product and container Disposal:**

Preferably dispose of product by use. Otherwise dispose of product, packaging and waste at an approved landfill or equivalent facility in accordance with local, regional and national environmental regulations. Donaghys is a member of Agrecovery Container Recycling programme. For details on how to correctly prepare your container and collection sites please visit www.agrecovery.co.nz.

Section 14 – Transport Information**International Regulations
IATA-DGR**

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE-LIQUID- N.O.S. (CONTAINS 0.5% MOXIDECTIN)
UN Number: 3082
Hazard class: 9
Subsidiary Risk Class: No information available
Packing Group: III
Marine pollutant: Yes
EmS Fire: F-A
EmS Spill: S-F

IMDG-Code
UN number: UN 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE-LIQUID- N.O.S. (CONTAINS 0.5% MOXIDECTIN)
Hazard Class: 9
Packing group: III
Marine pollutant: Yes

Section 15 – Regulatory Information

EPA NZ Registration Code: HSR100759
See <http://www.epa.govt.nz> for approval conditions

ACVM Registration Number: A011390
See www.foodsafety.govt.nz for registration conditions

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)

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