



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

Product Name	: Moxi LA Injection
Company	: Donaghys Ltd
Address	: 16 Sheffield Crescent PO Box 20 449 Christchurch
Telephone Number	: 0800 942 006
Manufacturer Product Code	: AMOXILAPK
ACVM No	: A011772
Recommended Use	: For the treatment and control of internal parasites, nasal bot and itchmite in sheep

Section 2 – Hazard Identification

Hazard Classification



6.1D	Harmful if swallowed
6.3A	Warning: Causes skin irritation
6.4A	Warning: Causes eye irritation
6.8A	Moxidectin is a human reproductive/ developmental toxicant. Avoid using product immediately prior to; or during pregnancy.
6.8C	May cause harm to breast fed children. Avoid using whilst breast feeding.
6.9B	May cause damage to organs
9.1A	Very toxic to aquatic life with long lasting effects
9.2C	Harmful to the soil environment
9.3C	Harmful to terrestrial vertebrates
9.4B	Harmful to terrestrial invertebrates

Prevention statements

P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P263	Avoid contact during pregnancy/while nursing.

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EPA NZ Approval Code : HSR100677
Signal word : DANGER

Section 3 – Composition Information

Chemical Entity	CAS No.	Concentration
Moxidectin	113507-06-5	2%
Other ingredients determined not to be hazardous	-	to 100%

Section 4 – First Aid Measures

If Swallowed:	Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse Mouth. If medical advice is needed, have product container or label at hand.
If in eyes:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue rinsing. If eye irritation persists: Get medical advice/attention.
If on skin:	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: Get medical advice/attention.
If Inhaled:	Remove to fresh air and keep at comfortable position for breathing. Get medical advice/attention if unwell.
If exposed or concerned:	Get medical advice/attention.
Advice to Doctor:	No information available

Section 5 – Fire-fighting Measures

Fire and explosion hazards:	Non flammable, Non combustible, Non explosive.
Special Protective Equipment:	Self contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Suitable extinguishing Media:	Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.
Not suitable extinguishing Media:	Not Known
Specific hazards during fire-fighting:	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.
Hazchem code:	3Z

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Section 6 – Accidental Release Measures

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. .

Containment for bulk storage: If greater than 100L is stored in one location, secondary containment and emergency plans to manage any potential spills must be in place.
In all cases design storage to prevent discharge to storm-water drains. (If this occurs contact your regional council immediately).

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 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

Work place 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

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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

Section 9 – Physical and Chemical Properties

Formulation type: Liquid
Appearance: Clear yellow tinted viscous solution
Specific Gravity: 0.92 – 0.98 g/mL
Vapour pressure: N/A
Solubility in Water: Moxidectin is insoluble in water; excipients are also insoluble in water.
Autoignition 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: Harmful if swallowed. Repeated exposure may cause skin allergy. Moxidectin can affect development of the unborn child and/or reproduction. May cause harm to breast-fed children.
Summary data:
Moxidectin
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

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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) 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]

Section 12 - Ecological Information

Data and interpretation:

Very toxic to aquatic organisms. Harmful to the soil environment. Harmful to terrestrial vertebrates. Harmful 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]

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Biocumulative: 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]
 Biocumulative: 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]

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]



Section 13 – Disposal Considerations

Product 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

Relevant information: Dangerous Goods for transport.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Moxidectin 2.0%)
UN Number: 3082
Dangerous Goods Class: 9
The maximum quantity per package of this substance allowed for carriage on public transport is 1000L.

Other requirements: N/A

Section 15 – Regulatory Information

Regulatory status: Registered pursuant to the ACVM Act 1997, No. A011772
See www.foodsafety.govt.nz for registration conditions
This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO).
SDS is required for quantities greater than or equal to 0.1L

HSNO Approval Number: HSR100677

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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