



## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

<b>Product name:</b>	MARATHON LA Injection
<b>ACVM approval code:</b>	A011392
<b>Recommended use:</b>	Injectable ectoparasiticide / endoparasiticide for treatment and control of internal parasites, nasal bot and itchmite in sheep.
<b>Company name:</b>	Alleva Animal Health Limited
<b>Address:</b>	1/116a Harris Road, East Tamaki, Auckland, 2013, New Zealand
<b>Telephone:</b>	0064-9-4181405
<b>Emergency telephone number:</b>	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111
<b>Date of Preparation</b>	17 October 2019 v2
<b>Restrictions of Use</b>	Refer to Section 15

### SECTION 2: HAZARDS IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR007722

Pictograms:



Toxic



Chronic



Ecotoxic

Signal Word: **WARNING**

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1



6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.8C	H362	May cause harm to breast-fed children.	Lact.
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1A	H400	Very toxic to aquatic life.	Aquatic Acute 1
9.2B	H422	Toxic to the soil environment.	-
9.3C	H433	Harmful to terrestrial vertebrates.	-
9.4B	H442	Toxic to terrestrial invertebrates.	-

**Prevention Code      Prevention Statement**

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.
P260	Do not breathe fumes, mist, vapours or spray.
P263	Avoid contact during pregnancy/while nursing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

**Response Code      Response Statement**

P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

**Storage Code      Storage Statement**

P405	Store locked up.
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**Disposal Code      Disposal Statement**

P501	Dispose of according to Local Regulations or Authorities
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**SECTION 3: COMPOSITION**



<b>Product Components:</b>		
<b>Name</b>	<b>CAS #</b>	<b>Concentration</b>
Moxidectin	113507-06-5	2%
Benzyl alcohol	100-51-6	7%
Other non-hazardous ingredients	-	To 100%

#### SECTION 4: FIRST AID MEASURES

<b>Necessary first aid measures:</b>	<p><b>Self-Injection:</b> Immediate medical advice should be sought on the management of all instances of accidental self-injection, particularly those near a joint or associated with bruising. Allow the wound to bleed freely and avoid squeezing the injection site to avoid spread of the product. Clean the wound thoroughly with soap and water, then keep it clean and dry.</p> <p><b>Skin Contact:</b> Remove any contaminated clothing and wash the affected area immediately with soap and water. If symptoms develop seek medical advice immediately.</p> <p><b>Eye Contact:</b> In case of contact, immediately flush eye with plenty of 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><b>Ingestion:</b> 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><b>Inhalation:</b> In case of accidental overexposure, get to fresh air. If irritation occurs or persists, get medical attention.</p>
<b>Most important symptoms and effects, both acute and delayed</b>	<p>Symptoms:            Harmful if swallowed.            May cause an allergic skin reaction.            Suspected of damaging fertility or the unborn child.            May cause harm to breast-fed children.            May cause damage to organs through prolonged or repeated exposure.</p>
<b>Hygiene Practices:</b>	<p>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.</p>
<b>Notes for</b>	<p>Accidental self-injection may lead to an inflammatory response</p>



<b>Medical Personnel:</b>	and deep injections, particularly those near a joint or associated with bruising, should be treated medically or surgically.
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## SECTION 5: FIRE FIGHTING MEASURES

<b>Type of hazard:</b>	This product is non-flammable, non-combustible and non-explosive.
<b>Fire hazard properties:</b>	There is a slight risk of an explosion from this product if commercial quantities are involved in a fire. Fire decomposition products from this product may be toxic if inhaled. Do not allow fire water to enter waterways
<b>Extinguishing media and methods:</b>	Use dry chemical, foam, carbon dioxide or water to extinguish fires involving this product.
<b>Hazchem code:</b>	<b>2X</b>
<b>Recommended protective clothing:</b>	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

<b>Personal Precautions:</b>	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.
<b>Environmental Precautions:</b>	Prevent material from entering surface water drains or waterways. If a significant quantity of material enters drains, advise emergency services.
<b>Procedure for Spills:</b>	<ol style="list-style-type: none"> <li>1. Non-essential personnel should be evacuated from the affected area.</li> <li>2. Stop leak and contain the source of spill if it is safe to do so. Reposition any leaking containers to minimise further leakage.</li> <li>3. Absorb the spill with an absorbent material (e.g. sand).</li> <li>4. Collect the spilled material into</li> </ol>



	labelled containers for disposal, minimising dust generation. 5. Decontaminate the spill area thoroughly with detergent and water, preventing runoff from entering drains.
<b>Procedure for Disposal:</b>	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

<b>Precautions for safe handling:</b>	<ul style="list-style-type: none"> <li>• Read label before use.</li> <li>• Obtain special instructions before use.</li> <li>• Keep exposure to this product to a minimum and minimise the quantities kept in work areas.</li> <li>• Avoid self-injection, ingestion, contact with skin and eyes.</li> <li>• Do not handle until all safety precautions have been read and understood.</li> <li>• Do not breathe fumes, mist, vapours or spray.</li> <li>• Avoid contact during pregnancy/while nursing.</li> <li>• Wash hands thoroughly after handling.</li> <li>• Do not eat, drink or smoke when using this product.</li> <li>• Contaminated work clothing should not be allowed out of the workplace.</li> <li>• Avoid release to the environment.</li> <li>• Wear protective clothing.</li> <li>• Use personal protective equipment as required.</li> </ul>
<b>Conditions for safe storage:</b>	<ul style="list-style-type: none"> <li>• Keep out of reach of children.</li> <li>• Store below 30°C (Room Temperature).</li> <li>• Protect contents from light</li> <li>• Store in a well ventilated area in the original container,</li> </ul>





<p><b>General Hygiene:</b></p>	<p>protective gloves should be worn when handling this product to prevent irritation.</p> <p><b>Eye protection:</b> Safety glasses are recommended if there is a potential for direct eye contact.</p> <p>Change work clothes regularly. Avoid self-injection, 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.</p>
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light yellow coloured liquid
<b>Odour</b>	Alcohol-like odour
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	Not applicable
<b>Boiling Point</b>	109°C at 100 kPa
<b>Freezing/Melting Point</b>	Approximately -44°C
<b>Flash Point</b>	127°C (cc)
<b>Flammability</b>	Not applicable
<b>Upper and Lower Exposure Limits</b>	Not applicable
<b>Vapour Pressure</b>	0.92 kPa at 20°C
<b>Vapour Density</b>	Not applicable
<b>Specific Gravity /Density</b>	0.933
<b>Solubilities</b>	Insoluble
<b>Partition Coefficient:</b>	Not applicable
<b>Auto-ignition Temperature</b>	307°C
<b>Volatiles</b>	Completely volatile at 100°C
<b>Kinematic Viscosity</b>	Not applicable
<b>Particle Characteristics</b>	Not applicable

## SECTION 10: STABILITY AND REACTIVITY

<b>Stability of the substance:</b>	This product is unlikely to react or
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	decompose under normal storage conditions.
<b>Conditions to avoid:</b>	Store as recommended. No specific conditions to avoid.
<b>Material to avoid:</b>	Strong oxidising agents.
<b>Hazardous decomposition products:</b>	This product is unlikely to spontaneously decompose.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute effects:</b>	
<b>Swallowed</b>	Harmful if swallowed.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.
<b>Skin</b>	May cause an allergic skin reaction.
<b>Chronic and long-term effects:</b>	
<b>Reproductive</b>	Suspected of damaging fertility or the unborn child.
<b>Systemic</b>	
<b>Carcinogenicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	May cause harm to breast-fed children.
<b>STOT/RE</b>	May cause target organ damage from repeated oral exposure at high doses.

### 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 [LD50 (oral, mice) 42 mg/kg, LD50 (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 [LD50 (oral, rabbit) 1040 mg/kg, LD50 (dermal, rabbit) 2000 mg/kg], an eye irritant and a contact sensitiser.

#### **Chronic Exposure:**

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: ENVIRONMENTAL INFORMATION

**Ecotoxicity effects:**

HSNO Classes:     9.1A = Very toxic to aquatic life.  
                           9.2B = Toxic to soil environment.  
                           9.3C = Harmful to terrestrial vertebrates.  
                           9.4B = Toxic to terrestrial invertebrates.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

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].

Do not allow to enter waterways.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Product disposal:</b>	<p>Preferably dispose of product by use in accordance with label directions.</p> <p>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. Ensure containers holding waste product or contaminated spill media are labelled "Hazardous Waste - Ecotoxic"</p>
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	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. Used needles and syringes should immediately be placed in a designated and appropriately labelled "sharps" container.
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## SECTION 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



### Road and Rail Transport

UN No: 3082  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Moxidectin 2%)

### Air Transport

UN No: 3082  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Moxidectin 2%)

### Marine Transport

UN No: 3082  
Class-primary 9  
Packing Group III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Moxidectin 2%)

**NOT RESTRICTED UNDER SPECIAL PROVISION A197 (375):** These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

## SECTION 15: REGULATORY INFORMATION

<b>Regulatory status:</b>	Registered pursuant to the ACVM Act
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	1997, A011392 See <a href="http://www.foodsaftely.govt.nz">www.foodsaftely.govt.nz</a> for registration conditions. Approved pursuant to the HSNO Act, EPA Approval Code HSR007722 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval conditions.
<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
<b>Certified Handler</b>	Not required
<b>Location Certificate</b>	Not required
<b>Tracking Trigger Quantities</b>	Not required
<b>Signage Trigger Quantities</b>	100L/Kg (9.1A)
<b>Emergency Response Plan</b>	100L/Kg (9.1A)
<b>Secondary Containment</b>	100L/Kg
<b>Restriction of Use</b>	None
<b>Hazardous Property Controls Notice 2017</b>	
<b>HPC Notice Part 4 Clause 47</b>	Equipment for class 9 substances must be appropriate
<b>HPC Notice Part 4 Clause 48</b>	Records of application of class 9 pesticides and plant growth regulators
<b>HPC Notice Part 4 Subpart A</b>	Site and storage controls for class 9 substances
<b>HPC Notice Part 3</b>	Hazardous substances in a place other than a workplace.

## SECTION 16: OTHER INFORMATION

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. ALLEVA Animal Health Limited makes no warranty with respect hereto and disclaims all liability from reliance thereon.

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.

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