

SAFETY DATA SHEET

Product Name: MARATHON LA Injection

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER			
Product name:	MARATHON LA Injection		
ACVM approval code:	A011392		
Recommended use:	Injectable ectoparasiticide / endoparasiticide for treatment and control of internal parasites, nasal bot and itchmite in sheep.		
Company name:	Alleva Animal Health Limited		
Address:	1/116a Harris Road, East Tamaki, Auckland, 2013, New Zealand		
Telephone:	0064-9-4181405		
Emergency telephone number:	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111		
Date of Preparation	27 February 2025 v4		
Restrictions of Use	Refer to Section 15		

SECTION 2: HAZARDS IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Veterinary Medicines (Non-Dispersive Closed System Application) – HSR100758

Pictograms:







Signal Word: WARNING

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.

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Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Effects on or via lactation	H362	May cause harm to breast-fed children.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to soil organisms	H422	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates	H442	Hazardous to terrestrial invertebrates

Prevention Code Prevention Statement

Prevention Code	e 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

	Nesponse 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

SECTION 3: COMPOSITION			
Product Components:			
Name	CAS #	Concentration	
Moxidectin	113507-06-5	2%	
Benzyl alcohol	100-51-6	7%	
Other non-hazardous ingredients	-	To 100%	

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:

Self-Injection: 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.

Skin Contact: Remove any contaminated clothing and wash the affected area immediately with soap and water. If symptoms develop seek medical advice immediately.

Eye Contact: 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.

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.

Inhalation: In case of accidental overexposure, get to fresh air. If irritation occurs or persists, get medical attention.

Most important symptoms and effects, both acute and delayed

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.

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Hygiene Practices:	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.
Notes for Medical Personnel:	Accidental self-injection may lead to an inflammatory response and deep injections, particularly those near a joint or associated with bruising, should be treated medically or surgically.

SECTION 5: FIRE FIGHTING MEASURES		
Type of hazard:	This product is non-flammable, non-combustible and non-explosive.	
Fire hazard properties: Extinguishing media and methods:	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 S: Use dry chemical, foam, carbon dioxide	
	or water to extinguish fires involving this product.	
Hazchem code:	3Z	
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:	1. Non-essential personnel should be evacuated from the affected area.	



1309	
	 Stop leak and contain the source of spill if it is safe to do so. Reposition any leaking containers to minimise further leakage. Absorb the spill with an absorbent material (e.g. sand). Collect the spilled material into labelled containers for disposal, minimising dust generation. 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		
Precautions for safe handling:	 Read label before use. Obtain special instructions before use. Keep exposure to this product to a minimum and minimise the quantities kept in work areas. Avoid self-injection, ingestion, contact with skin and eyes. Do not handle until all safety precautions have been read and understood. Do not breathe fumes, mist, vapours or spray. Avoid contact during pregnancy/while nursing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective clothing. 	



	Use personal protective
	equipment as required.
Conditions for safe storage:	 Keep out of reach of children. Store below 30°C (Room Temperature). Protect contents from light Store in a well ventilated area in the original container, tightly closed, away from foodstuffs Keep away from incompatible materials listed in Section 10.
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

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m³ ppm mg/m³

No substance has exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15TH EDITION.

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:	Respiratory protection: 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. Hand protection: Impervious protective gloves should be worn when handling this product to prevent irritation. Eye protection: Safety glasses are recommended if there is a potential for direct eye contact.
General Hygiene:	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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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



Volatiles	Completely volatile at 100°C	
Kinematic Viscosity	Not applicable	
Particle	Not applicable	
Characteristics		

SECTION 10: STABILITY AND REACTIVITY	
Stability of the substance:	This product is unlikely to react or decompose under normal storage conditions.
Conditions to avoid:	Store as recommended. No specific conditions to avoid.
Material to avoid:	Strong oxidising agents.
Hazardous decomposition products:	This product is unlikely to spontaneously decompose.

SECTION 11: TOXICOLOGICAL INFORMATION	
Acute effects:	
Swallowed	Harmful if swallowed.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	May cause an allergic skin reaction.
Chronic and long-term effects:	
Reproductive Systemic	Suspected of damaging fertility or the unborn child.
Carcinogenicity	Not applicable.
Germ Cell Mutagenicity	May cause harm to breast-fed children.
STOT/RE	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.

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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:	

Very toxic to aquatic life.
Hazardous to soil organisms
Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	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.

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SECTION 13: DISPOSAL CONSIDERATIONS

Product disposal: Preferably dispose of product by use in accordance with

label directions.

container.

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

of any water supply with product. Ensure containers holding waste product or contaminated spill media are

labelled "Hazardous Waste - Ecotoxic"

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"

SECTION 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



UN No.:	3082
Class:	9
Packing Group:	III
Hazchem Code:	3Z
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Moxidectin 2%)

Limited Quantities Statement:

If the product's individual container is below 5L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG

SECTION 15: REGULATORY INFORMATION

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Regulatory status:	EPA Approval No: Veterinary Medicines (Non-Dispersive Closed System Application) – HSR100758
	Registered pursuant to the ACVM Act 1997
	Approval No: A011392
	See www.foodsaftely.govt.nz for registration conditions.
HSW (HS) Regulations 2017	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100L/Kg
Emergency Response Plan	100L/Kg
Secondary Containment	100L/Kg
Restriction of Use	None

SECTION 16: OTHER INFORMATION

Glossary

CAT Category

EC50 Median effective concentration.

EEL Environmental Exposure Limit.

EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC50 Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

LD50 Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15th edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020



5. HSW (Hazardous Substances) Regulations 2017

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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