

SAFETY DATA SHEET

Moxisure LA Injection for Sheep

SECTION 1: IDENTIFICATION

Product name:	Moxisure LA Injection for Sheep
ACVM registration no:	A010806
Recommended use:	For the treatment and control of internal parasites, nasal bot and itchmite in sheep
Supplier:	HORIZON AGRESOURCES (NZ) Ltd
Address:	Gloucester Court 250 Gloucester St, Napier 4112, New Zealand
Contact number:	0800 378 6300
Emergency contact number:	0800 734 607 (24 hours)
National Poisons Centre:	0800 764 766 (0800 POISON)
Document version and date:	2.0 16 March 2022

SECTION 2: HAZARD IDENTIFICATION

HSNO Approval number:	HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020
GHS Classification:	Acute oral toxicity Category 4 Skin irritation Category 2 Eye irritation Category 2 Reproductive toxicity Category 1 Reproductive toxicity - additional effects on or via lactation Specific target organ toxicity (repeated exposure) Category 2 Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1 Hazardous to soil organisms Hazardous to terrestrial vertebrates Hazardous to terrestrial invertebrates
Signal word:	Danger
GHS Pictogram:	
Hazard statement:	<p>H302: Harmful if swallowed.</p> <p>H315: Causes skin irritation.</p> <p>H319: Causes serious eye irritation.</p> <p>H360: May damage fertility or the unborn child.</p> <p>H362: May cause harm to breast-fed children.</p> <p>H373: May cause damage to organs through prolonged or repeated exposure.</p> <p>H400: Very toxic to aquatic life.</p> <p>H410: Very toxic to aquatic life with long lasting effects.</p>

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H423: Harmful to the soil environment.
H433: Harmful to terrestrial vertebrates.
H442: Toxic to terrestrial invertebrates.

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 mist.
P263: Avoid contact during pregnancy/while nursing.
P264: Wash hands and exposed skin 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 and eye/face protection.
P281: Use personal protective equipment as required.

Response statement: P101: If medical advice is needed, have product container or label at hand.
P314: Get medical advice/attention if you feel unwell.
P321: See first aid instruction on this label.
P362: Take off contaminated clothing and wash before re-use.
P391: Collect spillage.
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.

Storage statement: P405: Store locked up.

Disposal statement: P501: Dispose of contents and containers as specified on the registered label.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product ingredients	CAS Number	Concentration
Moxidectin	113507-06-5	20 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. 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. SELF-INJECTION: Seek medical attention.
Inhalation:	If inhaled: Remove to fresh air. If breathing is difficult, get medical attention.
Skin contact:	If skin or hair contact occurs: Remove contaminated clothing and flush skin and hair with running water. Get medical attention if irritation develops.
Eye contact:	If splashed in eyes: Wash out immediately with water. Get medical attention if irritation occurs.
Ingestion:	If swallowed: Rinse mouth out. Do NOT induce vomiting. Seek medical attention immediately. Have product container to hand.
Workplace facilities:	No special facilities required.
Notes for medical personnel:	Apply symptomatic therapy (no specific antidote). Note the nature of the product (Acute oral toxicity, Skin and eye irritation reproductive toxicant, Specific target organ toxicity).

SECTION 5: FIRE FIGHTING MEASURES

Fire and explosion hazards:	Non flammable, Non combustible, Non explosive
Extinguishing media	In case of fire: Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.
Fire Fighting	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Flash point:	No data available
Auto ignition temperature:	No data available
Flammability class:	No data available
Hazchem code:	3Z

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	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.
Environmental precautions:	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.
Methods and materials for containment and cleaning up:	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).

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SECTION 7: HANDLING AND STORAGE

Handling:	Avoid contact during pregnancy/while nursing. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe mist.
Certified handler:	No
Tracking:	No
Storage:	Store below 25°C. Protect from light. Store locked up and out of reach of children 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 Schedule 3 (UN Packing Group III) for quantities >1L (Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational exposure limits:	Exposure limits have not been established for any of the significant ingredients in this product.
Engineering controls:	Prevent exposure by using personal protective equipment and work practices that prevent skin and eye contact, and prevent release to the environment.
Protective material types:	Clothing should consist of overalls with long sleeves, and impervious gloves. Wear eye protection (e.g. glasses, goggles or face shield).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear yellow tinted viscous solution
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	0.92 – 0.98 g/mL
Solubility (ies):	Moxidectin is insoluble in water; excipients are also insoluble in water.
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	No data available
Particle characteristics:	No data available

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions of use and storage.
Conditions to Avoid:	Avoid high temperatures.
Incompatibilities:	No specific materials to avoid.
Hazardous decomposition products:	Hazardous decomposition products are expected when heated to decomposition temperatures. Use appropriate PPE when fighting fires.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	<p>Moxidectin: Acute Tox.2 H300: Fatal if swallowed. Oral Route SPECIES: Mouse (f) ENDPOINT: LD50 VALUE: 42 mg/kg</p> <p>Acute Tox.2 H332: Harmful if inhaled. Inhalation Route SPECIES: Rat ENDPOINT: LC50 VALUE: 3.28 mg/l</p>
Skin corrosion/irritation:	No data available
Serious eye damage/ irritation:	<p>Moxidectin: Eye Irrit.2 H319: Causes serious eye irritation. SPECIES: Rabbit RESULT: Moderate</p>
Respiratory or skin sensitisation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	<p>Moxidectin: Repr.2 H361: Suspected of damaging fertility or the unborn child</p> <p>Effects on or via lactation H362: May cause harm to breast-fed children.</p>
Specific target organ toxicity – single exposure:	No data available
Specific target organ toxicity – repeated exposure:	<p>Moxidectin: STOT Rep.Exp.1 H372: Causes damage to organs through prolonged or repeated oral exposure Oral Route Endpoint: LOEC Value: 1.6 mg/kg bw/day Primary Organ Effected: Neurotoxicity (nervous system) Secondary Organ(s) Effected: Eyes Hepatotoxicity (liver) Renal toxicity (Kidney) Respiratory system</p>
Aspiration hazard:	No data available

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SECTION 12: ECOLOGICAL INFORMATION	
Ecotoxicity-Aquatic:	<p>Moxidectin: Aquatic Acute 1 H400: Very toxic to aquatic life.</p> <p>Short term toxicity to fish: SPECIES: Rainbow trout TYPE OF EXPOSURE: DURATION: 96 hr ENDPOINT: LC50 VALUE: 0.16 ppb (= 0.00016 mg/l)</p> <p>Short term toxicity to invertebrates: SPECIES: Daphnia magna TYPE OF EXPOSURE: DURATION: 48 hr ENDPOINT: EC50 VALUE: 30 ppt (= 0.00003 mg/l)</p> <p>Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects.</p>
Ecotoxicity-Terrestrial:	<p>Moxidectin: Harmful to terrestrial vertebrates. Toxic to terrestrial invertebrates.</p>
Persistence and degradability:	No data available
The potential to be bioaccumulative:	<p>Moxidectin: Bioaccumulation: Bioaccumulative: Yes Log Kow = 4.766</p>
Mobility in soil:	<p>Moxidectin: Harmful to the soil environment.</p>
Other adverse effects:	No data available

SECTION 13: DISPOSAL CONSIDERATIONS	
Disposal:	<p>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 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.</p>

SECTION 14: TRANSPORT INFORMATION	
UN Number:	3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Moxidectin 2.0%)
UN dangerous goods class and subsidiary risk:	9
UN Packaging Group:	III
Environmental hazards:	Marine pollutant

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Special precautions when transporting the substance:	The maximum quantity per package of this substance allowed for carriage on public transport is 1000L.
Transport of Dangerous Goods Pictogram:	

SECTION 15: REGULATORY INFORMATION

HSNO Approval number:	HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020
ACVM registration no:	A010806

SECTION 16: OTHER INFORMATION

Abbreviations:	<p>ACVM: Agricultural Compounds and Veterinary Medicines EPA: Environmental Protection Agency (previously known as ERMA) CAS Number: Chemical Abstracts Service Registry Number GHS: Globally Harmonized System HAZCHEM Code: Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters HSNO: Hazardous Substances and New Organisms (Act and Regulations) UN Number: United Nations Number SDS: Safety Data Sheet ARTG: Australian Register of Therapeutic Goods Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time. Controls Matrix: List of default controls linking regulation numbers to Matrix code (e.g. T1, I16). IARC: International Agency for Research on Cancer LEL: Lower Explosive Limit STEL: Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15-minute period, provided the TWA is not exceeded TWA: Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours) WES: Workplace Exposure Standard - The airborne UEL: Upper Explosive Limit EC50: Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species) LD50: Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). LC50: Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)</p>
References:	<p>Unless otherwise stated, toxicity information has been obtained from the EPA HSNO chemical classification information database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html for specific chemicals. EPA Transfer Gazettes, Classifications and controls assigned for specific ingredients (consolidated gazette, 2004) Controls Matrix, Part of the EPA New Zealand User Guide to the HSNO Control Regulations WES 2013, The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz. Other References: Suppliers SDSs</p>

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Disclaimer:	<p>This SDS was prepared by Horizon Agresources Ltd, and is based on our current state of knowledge, including information obtained from suppliers. This SDS is written in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on experience, EPA Guidelines and international classifications. This SDS is copyright Horizon Agresources Ltd, and must not be edited without the permission of the copyright holder or used for other than intended purpose.</p>
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