



# SAFETY DATA SHEET

Vetmed Corporation Limited  
PO Box 217234  
Botany Junction  
Auckland  
Phone: +64 9 274 8848  
Fax: +64 9 274 8842  
This SDS consists of 16 sections.

Page 1

Effective Date: 02/11/11 **Vetmed Moxidectin Selenium Sheep Oral**

## Section 1: Identification of the Substance

Product Name	Vetmed Moxidectin Selenium Sheep Oral
Use	For the treatment of gastrointestinal and pulmonary nematodes and itchmite of sheep
Company Details	Nexan Corporation Limited PO Box 217234 Botany Junction Auckland Phone: +64 9 274 8848 Fax: +64 9 274 8842
Emergency Phone Number	National Poisons Centre: 0800 764 766 (0800 POISON)

## Section 2: Hazardous Identification

Hazard classifications	6.5B, 6.8B, 6.8C, 9.1A, 9.2C, 9.4C
Priority identifiers	WARNING KEEP OUT OF REACH OF CHILDREN WARNING Dangerous to the environment
Risk and safety phrases	6.5B May cause an allergic skin reaction. Avoid skin contact. 6.8B Suspected of damaging fertility or the unborn child from repeated oral exposure. 6.8C May cause harm to breast-fed children from repeated oral exposure. 9.1A Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. 9.2C Harmful to the soil environment. 9.4C Harmful to terrestrial invertebrates.

## Section 3: Composition

<u>Ingredient</u>	<u>CAS Number</u>	<u>Content (%)</u>
Moxidectin	113507-06-5	0.1
Benzyl alcohol	100-51-6	4.0
Sodium selenate	13410-01-0	0.12



# SAFETY DATA SHEET

Vetmed Corporation Limited  
PO Box 217234  
Botany Junction  
Auckland  
Phone: +64 9 274 8848  
Fax: +64 9 274 8842  
This SDS consists of 16 sections.

Page 2

Effective Date: 02/11/11

## Vetmed Moxidectin Selenium Sheep Oral

### Section 4: First Aid

For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately.

INGESTION

If swallowed do NOT induce vomiting. Rinse mouth. Keep subject warm and at rest. Seek medical attention immediately.

EYES

If splashed in eyes, rinse cautiously with water for at least 15 minutes. Continue rinsing, & if eye irritation persists, seek medical attention.

SKIN

If skin or hair contact occurs remove contaminated clothing and wash affected area thoroughly with plenty of soap and water for at least 15 minutes. If skin irritation or rash occurs, seek medical attention. Dispose of contaminated clothing promptly.

INHALATION

Remove patient to fresh air. Lay patient down and keep warm and rested. If breathing is shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is difficult give oxygen. Seek medical assistance immediately.

Workplace facilities

Hygiene practices

Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face thoroughly before meals and after handling. Wash protective clothing daily after work. Contaminated clothing should not be allowed out of the workplace.

Notes for medical personnel

No specific antidote. If poisoning is suspected apply symptomatic therapy. If vomiting is induced, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Only induce vomiting if conscious.

### Section 5: Fire Fighting

Type of hazard

Non flammable, non-combustible and non-explosive

Fire hazard properties

If involved in a fire, may emit noxious and/or corrosive fumes. Expansion on heating may lead to violent rupture of containers.

Regulatory requirements

Not applicable

Extinguishing media and methods

There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

Hazchem code

2X

Recommended protective clothing

Gas-tight chemical resistant suit, protective gloves and breathing apparatus.



# SAFETY DATA SHEET

Vetmed Corporation Limited  
PO Box 217234  
Botany Junction  
Auckland  
Phone: +64 9 274 8848  
Fax: +64 9 274 8842  
This SDS consists of 16 sections.

Page 3

Effective Date: 02/11/11 **Vetmed Moxidectin Selenium Sheep Oral**

## Section 6: Accidental Release

Emergency procedures	<p>In case of spillage it is important to take all steps necessary to:</p> <ul style="list-style-type: none"><li>• Avoid eye and skin contact.</li><li>• Avoid contamination of waterways</li></ul> <p>Procedure for spill:</p> <ol style="list-style-type: none"><li>(1) Keep all bystanders away.</li><li>(2) Wear full length clothing, PVC gloves and eyewear</li><li>(3) Reposition any leaking containers so as to minimise further leakage.</li><li>(4) Dam and absorb spill with an absorbent material (e.g. sand, soil or absorbent granules) and place in a sealable waste container.</li><li>(5) Ventilate area and wash spill site after pick-up complete.</li><li>(6) Dispose of waste safely in an approved landfill.</li></ol>
----------------------	---

## Section 7: Handling and Storage

Precautions for safe handling	Avoid contact with skin, eyes and inhalation of vapours. Avoid accidental injection. Use personal protective equipment as required.
Approved handlers	Not required
Conditions for safe storage	Store in original container below 30°C and under secure conditions. Keep out of reach of children.
Packaging	Packaging Schedule 3 (UN Packing Group III) for quantities >5L (Hazardous Substances Packaging Regulations 2001).
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.

## Section 8: Exposure / Personal Protective Equipment

Workplace exposure standards. Application in the workplace	A time weighted average (TWA) concentration for an 8-hour day and a 5-day week has not been established by NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of 10 mg/m <sup>3</sup> for dusts or mists when limits have not otherwise been established.
Exposure standards outside the workplace	Moxidectin: ADE: 0.002 mg/kg bw/day PDE <sub>food</sub> : 0.0014 mg/kg bw/day PDE <sub>drinking water</sub> : 0.0004 mg/kg bw per day PDE <sub>dermal</sub> : 0.0002 mg/kg bw per day TEL <sub>skin surface deposition</sub> : 0.03 mg/m <sup>2</sup> EEL <sub>water</sub> : 0.0000003 mg/L N/A.
Engineering controls	Engineering controls should be used as the primary means to control exposures. Use process enclosures, local exhaust ventilation, or other



# SAFETY DATA SHEET

Vetmed Corporation Limited  
PO Box 217234  
Botany Junction  
Auckland  
Phone: +64 9 274 8848  
Fax: +64 9 274 8842  
This SDS consists of 16 sections.

Page 4

Effective Date: 02/11/11

## Vetmed Moxidectin Selenium Sheep Oral

Personal protection	engineering controls to maintain airborne levels below recommended exposure limits.  Clothing should consist of overalls with long sleeves and impervious gloves.
---------------------	---

### Section 9: Physical and Chemical Properties

Formulation type	Aqueous solution
Appearance	Pale yellow liquid
Specific gravity	Approx 1.04
Behaviour in water	Soluble

### 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	No hazardous products are expected, except when heated to decomposition.
Hazardous polymerisation	Not known to occur.

### Section 11: Toxicological Information

**Moxidectin:** Moxidectin is a macrocyclic lactone, structurally similar to ivermectin, abamectin and milbemyacin. 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.



# SAFETY DATA SHEET

Vetmed Corporation Limited  
PO Box 217234  
Botany Junction  
Auckland  
Phone: +64 9 274 8848  
Fax: +64 9 274 8842  
This SDS consists of 16 sections.

Page 5

Effective Date: 02/11/11

## Vetmed Moxidectin Selenium Sheep Oral

### Section 12: Environmental Information

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.

Selenium: Selenium is very toxic to the aquatic environment with long lasting effects.

### Section 13: Disposal

Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Crush and bury in an approved landfill if an approved recycling system is not available. Do not burn. Do NOT use container for any other purpose.

### Section 14: Transport

Dangerous Goods for transport. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Moxidectin 0.1%)

The maximum quantity per package of this substance allowed for carriage on public transport is 1L.

Dangerous goods class

9

UN Number

3082

### Section 15: Regulatory

Registered pursuant to the ACVM Act 1997, No. A10799  
See [www.nzfsa.govt.nz/acvm](http://www.nzfsa.govt.nz/acvm) for registration conditions

ERMA Approval Code: HSR001900

### 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. 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.