



SAFETY DATA SHEET

According to Safe Work Australia

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Printing date 19.12.2022

Date: 19.12.2022

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: 4FARMERS MOXIDECTIN Long Acting Injection for Sheep

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use:

For treatment and control of roundworms, nasal bot and itchmite in sheep and for protection against severe challenge by *Haemonchus contortus* (barber's pole worm) for up to 4 months.

Details of Manufacturer or Importer:

4Farmers Australia Pty Ltd
70 McDowell Street
Welshpool WA 6106

Phone Number: +61 8 9356 3446

Emergency telephone number: National Poison Information Centre: 13 11 26

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

Not a Dangerous Good according to Australian Dangerous Goods (ADG)

Signal Word: Warning



GHS Classification Acute Toxicity (Oral)- Category 4
Specific target organ toxicity (repeated exposure)-Category 1
Acute Aquatic Hazard-Category 2

Hazard Statements

H302- Harmful if swallowed.

H372- May cause damage to organs through prolonged or repeated exposure.

H401- Toxic to aquatic life

Precautionary Statements – Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash all exposed external body areas thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Precautionary Statements -Response

P314: Get medical advice/attention if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary Statements Storage:

P410+P412 Store below 30° C (Room Temperature). Protect from sunlight.

Precautionary Statements Disposal:

P501 Dispose of container by wrapping with paper and putting in garbage. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

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3 . COMPOSITION AND INFORMATION ON INGREDIENTS**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

113507-06-5 	Moxidectin	2-3%
	Other components are not considered hazardous in this formulation	1-10%
57-55-6	Propylene glycol	>60%

4 . FIRST AID MEASURES**Inhalation:**

If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measure are usually unnecessary.

Skin Contact:

Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

WARNING: AVOID SELF-INJECTION. Accidental self-injection may cause an inflammatory or allergic response and medical advice should be sought in these cases. Deep injections, particularly if they are near a joint or associated with local bruising may require medical management. In most circumstance application of gentle pressure with absorbent material, e.g., facial tissues, to the needle puncture area to swab up unabsorbed product followed by cleaning of the damaged area with a suitable disinfectant will be sufficient to prevent problems

Eye Contact:

If in eyes, hold eyes open, flood with water for at least 15minutes and see a doctor. Sodium Fluoroacetate is water soluble and is readily dispersed with water. Seek medical attention.

Ingestion:**IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE**

POSSIBLE, WITHOUT DELAY. Urgent hospital treatment is likely to be needed. In the meantime, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise;

INDUCE vomiting with fingers down the back of the throat, **ONLY IF CONSCIOUS.** Lean patient forward or place on left side (head down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means

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5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide. Water spray or fog - Large fires only

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Hazchem Code: 2X

Specific Hazards Arising from the substance of mixture:

Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO₂), other pyrolysis products typical of burning organic material. May emit poisonous fumes.

Special protective Equipment and Precautions for Fire Fighters:

Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.

6 . ACCIDENTAL RELEASE MEASURE

Emergency procedures/

Small-scale spills: Remove all ignition sources. Clean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.

Large-scale Spills:

Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labeled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services

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7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. Avoid contact with incompatible materials.

DO NOT enter confined spaces until atmosphere has been checked.

DO NOT allow material to contact humans, exposed food or food utensils.

DO NOT eat, drink or smoke when handling.

Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Conditions for Safe Storage, Including any Incompatibilities:

Store below 30°C. Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.

Avoid reaction with oxidising agents; Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls: SWA Exposure Limits TWA (mg/m³) STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product. No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Occupational exposure limits: Moxidectin - TWA 70 µg/m³

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate.

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Personal Protection

Eye/face protection - Wear safety glasses with side shields (or goggles). Hand protection - Wear impervious gloves if skin contact is possible. Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

Respiratory protection - No personal respiratory protective equipment normally required. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely. If the applicable Occupational

Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

Hygiene measures - Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminant.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Melting Point/Freezing Point:	No information available
Relative Density :	0.93
Flash Point:	No information available
Vapour Pressure:	No information available
Viscosity:	Not available
pH :	Not Available

10. STABILITY AND REACTIVITY

Reactivity:	Non-reactive under normal conditions of use, storage and transport.
Chemical stability:	The product is stable and non-reactive under normal conditions of use, Storage and transport. Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. Avoid exposure to light/sunlight/heat/flames and sparks. Avoid contact with Incompatible materials.
Hazardous reactions:	Decomposition may produce toxic fumes of carbon dioxide (CO ₂), other Pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes
Incompatible materials:	Strong oxidising agents..
Hazardous decomposition products:	No Information available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Moxidectin: Dermal (rabbit) LD50: >2000 mg/kg; Eye (rabbit): slight irritant. Oral (rat) LD50: 106 mg/kg; Skin (rabbit): non-irritant.
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Chronic Toxicity Harmful: danger of serious damage to health by prolonged exposure if swallowed. Serious damage (clear functional disturbance or morphological change which may have toxicology significance) is likely to be caused by repeated or prolonged exposure. As a rule, the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in sub chronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two year) toxicity tests. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

12 . ECOLOGICAL INFORMATION

Ecotoxicity Moxidectin is extremely toxic to aquatic species. DO not contaminate dams, rivers, streams or other waterways with the chemical or used container.

13 . DISPOSAL CONSIDERATIONS

Disposal methods: Dispose of container by wrapping with paper and putting in garbage. Discarded needles/sharps should immediately be placed in a designated and appropriately labelled 'sharps' container.

14 . TRANSPORT INFORMATION

Road and Rail Transport. NOT classified as a dangerous good according to Australian Dangerous Goods (ADG) Code.

15 . REGULATORY INFORMATION

POISON SCHEDULE (SUSMP): S5

APVMA Approval No.: 88995

16 . OTHER INFORMATION

ISSUE : 001

ISSUE DATE: 19 Dec 2022

In any event, the review and, if necessary, the re-issue of an SDS shall be no longer than 5 years after the last date of issue.

LITERARY REFERENCE: **APVMA** Australian Pesticides and Veterinary Medicines Authority
ADG Code - Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
CAS NO Chemical Abstract Service Registry Number
SWA - Safe Work Australia, formerly ASCC and NOHSC

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

The information contained in this safety data sheet is provided in good faith based on manufacturer's advise. and is believed to be accurate at the date of issuance. 4Farmers Australia Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. 4Farmers Australia Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.