

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Mectin Sheep Drench**
 Product Class: Mineralised oral anthelmintic for treatment of internal parasites in sheep.
 Product Use: Endoparasiticide
 Restriction of Use: Refer to Section 15

New Zealand Manufacturer: **Jaychem Industries Ltd**
 Address: **3 Kordel Place**
East Tamaki, Auckland

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Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 24 March 2025 v4

Section 2. Hazards Identification

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

EPA Approval No: Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020 – HSR100758

Pictograms



Irritant Chronic Ecotoxic

Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
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 the aquatic environment Chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H423	Hazardous to soil organisms

Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates
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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes, 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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt	CAS NUMBER.
Abamectin	1g/L	71751-41-2
Sodium selenate	1.2g/L	13410-01-0
Disodium copper ethylenediamine tetra-acetate	14.6g/L	14025-21-9
Disodium cobalt ethylenediamine tetra-acetate	3.0g/L	15137-09-4
Disodium zinc ethylenediamine tetra-acetate	4.0g/L	14025-21-9
Ethylenediamine dihydriodide	1.0g/L	5700-49-2

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

If on Skin Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.

If Swallowed Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable.

Inhalation: Not applicable.

Skin: May cause an allergic skin reaction.

Eye: Causes serious eye irritation.

Chronic: 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.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Oxides of carbon, possible toxic fumes
Suitable Extinguishing media	Use media suitable for surrounding materials.
Precautions for firefighters and special protective clothing	Wear full protective gear. Do not allow water to enter drains.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Contain the spill and prevent further dispersion.

Do not allow to enter waterways.

Contain the spill and prevent further dispersion. Retrieve intact containers from site. Place damage containers into containment devices. Absorb spills with inert material 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.

Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Keep out of reach of children.
- Read carefully and follow all instructions.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes, vapours or spray.
- Avoid contact during pregnancy/while nursing.
- Wash hands thoroughly after handling.

- Contaminated work clothing should not be allowed out of the workplace.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Apply with well-maintained and calibrated equipment.
- Wear protective clothing.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilizer and seed.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have 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

Ensure that ventilation maintains dust levels below WES.

Personal Protection Equipment



Eyes	Wear goggles with side shields Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
Skin	Clothing should consist of overalls with long sleeves and impervious gloves.
Respiratory	Use Respiratory protection in areas of poor ventilation.

Section 9 Physical and Chemical Properties

Appearance	Suspension
Colour	Blue
Odour	Not available
Odour Threshold	Not available
pH	5.5 – 6.5
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.04-1.05
Water Solubility	Not available

Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Not available
Incompatible Materials	No specific materials to avoid.
Hazardous Decomposition Products	No hazardous products are expected, except when heated to decomposition.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Toxicity: Substances

Abamectin = LD50(Oral, rats) = 10mg/kg

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects

Hazardous to soil organisms

Hazardous to terrestrial vertebrates

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

Abamectin:

Acute oral LD50: 84.6 mg/kg (mallard ducks), >2000 mg/kg (bobwhite quail) Fish LC50 (96 h): 3.2 ug/l (rainbow trout), 9.6 ug/l (bluegill sunfish), 24 ug/l (channel catfish), 42 ug/l (carp). Daphnia EC50 (48 h); 0.34 ppb. Other LC50 (96 h); 1.6 ppb (pink shrimp); 0.022 ppb (mysid shrimp); 153 ppb (blue crab).

Bioaccumulation: No bioaccumulation

Section 13. Disposal Considerations

Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Ecotoxic" and that the label also has the appropriate Pictograms from Section 2, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as Dangerous Good for transport under NZ 5433: 2020



UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S
Marine Pollutant	Yes
Special Provisions	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

EPA Approval Code: Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020 – HSR100758

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100L
Emergency Response Plan (Schedule 5)	100L
Secondary Containment (Schedule 5)	100L
Tracking (Schedule 26)	Not required
Restriction of use	Only for intended use.
ACVM Act and Regulations	
ACVM Approval No	A009920

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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

Disclaimer

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Please contact the New Zealand distributor, Jaychem, if further information is required.

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