SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product:	**Yumamycin 1% microGranulate**
Product Use:	For use only in broiler chicken feeds for the prevention and control of coccidiosis caused by Eimeria acervulina, E. brunetti, E. maxima, E. mivati, E. necatrix and E. tenella.
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	**AgriHealth NZ Limited**
Address:	Level 2, 89 Grafton Road, Auckland 1010
Telephone:	+64 9 215 1199
Emergency No:	**0800 764 766 (National Poisons Centre)**
Date of SDS Preparation:	11 April 2025

Section 2. Hazards Identification

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

EPA Approval No: HSR100759

Pictograms

Eye irritation

Signal Word: **Warning**

GHS Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2A	H319	Causes serious eye irritation

Prevention Code	Prevention Statement
P264	Wash hands thoroughly after handling
P280	Wear protective clothing as detailed in Section 8

Response Code	Response Statement
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313	If eye irritation persists: Get medical advice/ attention

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER
Maduramicin ammonium	10 g/kg	84878-61-5
Calcium carbonate	330 g/kg	471-34-1
Grain dust	500 g/kg	-
Non-hazardous	To bal	-

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. Seek medical attention if irritation persists.

If on Skin — Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.

If Swallowed — Call a POISON CENTRE or doctor if you feel unwell. Never give anything to the mouth of an unconscious person.

If Inhaled — Remove person to fresh air. Keep at rest until fully recovered. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: None known

Inhalation: Coughing, shortness of breath, breathing difficulty in sensitized or allergized individuals

Skin: None known

Eye: Irritation

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	When heated to decomposition toxic fumes may be emitted
Suitable Extinguishing media	Water spray, dry powder, carbon dioxide, or foam
Precautions for firefighters and special protective clothing	Wear full protective clothing and self-contained breathing apparatus (SCBA)
HAZCHEM CODE	**2X**

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Restrict access to contaminated area. Prevent further spillage, and prevent spilled material from flowing onto adjacent land or into waterways. Retrieve intact containers from site. Place damaged containers into containment devices. Carefully sweep the powder up and remove. Place material in a dry container and cover. Mop the area with sponges soaked in water. Remove from the area.

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

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use
- Avoid breathing dust
- Wear protective gloves. Avoid contact with skin and eyes
- In case of inadequate ventilation wear respiratory protection
- Contaminated work clothing should not be allowed out of the workplace
- Wash hands and exposed skin before meals and after use
- Do not eat, drink or smoke while using

Precautions for Storage:

- Store away from incompatible materials listed in Section 10
- Take precautionary measures against electrostatic discharging
- Avoid formation of dust
- Store in the original container, away from direct heat or direct sunlight and away from foodstuffs
- Keep out of reach of children

Section 8. Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA		STEL	
Substance	**ppm**	**mg/m³**	**ppm**	**mg/m³**

No ingredient has a known exposure standard.

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 APR 2022 13TH EDITION.

Engineering Controls

Engineering controls should be used as the primary means to control exposures.
General room ventilation is adequate unless the process generates dust.

Personal Protection Equipment

Eyes	Safety glasses or goggles
Hands	Wear impervious gloves if skin contact is possible
Skin	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas
Respiratory	Particle filer half mask, filter P2
General	Do not eat, drink or smoke when using this product. Wash hands with soap and water before breaks and after work. Keep away from foodstuffs and beverages

Section 9. Physical and Chemical Properties

Appearance	Granules
Colour	Light grey to greyish brown
Odour	Specific
Odour Threshold	Not available
pH	Not available

Boiling Point	Not available
Melting Point	168°C to 174°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	600 kg/m3
Solubility	In water – insoluble; Soluble in organic solvents chloroform and methanol
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
Possibility of hazardous reactions	Not available
Conditions to Avoid	Avoid heat, light and moisture
Incompatible Materials	Water and acidic conditions (hydrochloric acid) combined with elevated temperature
Hazardous Decomposition Products	Thermal decomposition > 400°C Risk of dust explosions

Section 11. Toxicological Information

Acute Effects:

Product		**Species**	**Test results**
Yumamycin 1% (CAS mixture)	Acute oral LD_{50}	Mouse	>> 3500 mg/kg b.w.
	Acute oral LD_{50}	Rat	>> 3300 mg/kg b.w.
	Acute oral LD_{50}	Chicken	2000 - 2080 mg/kg b.w.
	Acute dermal LD_{50}	Albino rats	> 2000 mg/kg
	Acute inhalatory LC_{50}	Albino rats	> 2954 mg/m^3
Components		**Species**	**Test results**
Maduramicin ammonium (CAS 84878-61-5)	Acute oral LD_{50}	Mouse	35 mg/kg b.w.
	Acute oral LD_{50}	Rat	33 mg/kg b.w.
	Acute oral LD_{50}	Chicken	20.0 – 20.8 mg/kg b.w.
	Acute dermal LD_{50}	Albino rats	9.40 mg/kg (male) 7.90 mg/kg (female)
Calcium carbonate (CAS 471-34-1)	Acute oral LD_{50}	Rat	6.45 g/kg b.w.

Skin corrosion/irritation:
Yumamycin 1% - rabbits – 500mg – lack of irritation and corrosive potential
Yumamycin 1% - albino guinea pigs – not a contact sensitizer

Serious eye damage/irritation:
Yumamycin 1% - rabbit – causes moderate eye irritation with symptoms of pain and changes in the cornea and the conjunctiva of the eye. This information is confirmed by data obtained with maduramicin ammonium.

Respiratory or skin sensitization:
No data available

Chronic Effects:

Carcinogenicity	Not available
Reproductive Toxicity	The teratogenic studies performed on the active ingredient maduramicin ammonium demonstrated no teratogenic potential
Germ Cell Mutagenicity	Mammalian micronucleus test – mouse - negative
Aspiration	Not available
STOT/SE	Not available
STOT/RE	Not available

Section 12. Ecotoxicological Information

The product is not classified as hazardous to the environment.

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

Section 13. Disposal Considerations

Disposal Method:
Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater

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

Section 14. Transport Information

This product is not classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15. Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020
EPA Approval No: Veterinary medicines (Non-dispersive Open Application) Group Standard - **HSR100759**

HSW (HS) Regulations 2017	**Trigger Quantity**
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities (Schedule 26)	Not required

Signage Trigger Quantities (Schedule 3)	Not required
Emergency Response Plan (Schedule 5)	Not required
Secondary Containment (Schedule 5)	Not required
Restriction of Use	Only use for the intended purpose.
ACVM Act and Regulations	
See www.foodsafety.govt.nz for registration conditions	**A11189**

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 April 2022 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

This document has been prepared by AgriHealth NZ Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to AgriHealth NZ Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While AgriHealth NZ have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, AgriHealth NZ Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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

Issue Date: 11 April 2025 Review Date: 11 April 2030