



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Rumenox 200 Premix
 Manufactures Product Code: R-200P
 Pack Size: 25kg

Product Use: An in-feed premix for prevention of coccidiosis in poultry and cattle. For improved feed efficiency in cattle and increased milk protein production in dairy cattle. As an aid in the control of ketosis, and an aid in the reduction of bloat in cattle.

Restrictions of Use: Refer to section 15.

New Zealand Supplier/Mfg: Glenmark Veterinary Limited
 Address: 296 Glenmore Road Junction, Albany 0793
 Auckland

Telephone: 0800 485 123
 Fax Number: 09 415 0287
 Website: 0800 485 123

Emergency Telephone: 0800 764 766 (poison line)

Date of SDS Preparation: **3 August 2021 v3**

Section 2. Hazards Identification

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

EPA Approval Code: HSR002317

Pictograms:



Acutely Toxic



Skin Sens.



Corrosive



Ecotoxic

Signal Word: **DANGER**

GHS Category & Classification

Hazard Code

Hazard Statement

GHS Category & Classification	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 3	H301	Toxic if swallowed.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to soil organisms	H423	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H431	Hazardous to terrestrial vertebrates

Prevention Code

Prevention Statement

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.

P261	Avoid breathing dust.
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.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or physician.
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose according to label instructions, or at an approved landfill or other approved facility. It is not proposed to refill or reuse the empty containers. Cleaned empty containers may be offered for recycling or buried in a landfill after crushing or puncturing.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Sodium monensin	20%	22373-78-0
Diluent	65-80%	Proprietary
Anti-dusting oil	1-3%	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical assistance if needed
If on Skin	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs seek medical assistance
If Swallowed	IF SWALLOWED: Rinse mouth. Never give anything to the mouth of an unconscious person. Immediately call a POISON CENTER or physician
If Inhaled	Move to fresh air. Seek medical assistance if needed.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	Toxic if swallowed.
Inhalation:	Not applicable.
Skin:	May cause an allergic skin reaction.
Eye:	Causes serious eye damage.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	May emit toxic fumes when exposed to heat or fire.
Suitable Extinguishing media	Water, carbon dioxide, dry chemical, foam or halon
Precautions for firefighters and special protective clothing	Protective clothing suitable for chemical or agrichemical fire including self-contained breathing apparatus.
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Ensure spill response personnel have adequate protective gloves, goggles and dust filter mask.

Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist material and remove by sweeping or wet wiping.

Transfer to a waste container labelled as "Hazardous Waste". Dispose of to an approved landfill.

Large spills due to traffic accidents, etc., should be reported immediately to the HAZMAT Fire service team by dialling 111.

Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes.

Section 7. Handling and Storage

Precautions for safe handling: Keep out of reach of children. Read safety data sheet or label before use. Avoid breathing in dust. Wash hands thoroughly after use. Do not eat, drink or smoke when using this product. Wear protective clothing. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment

Conditions for safe storage: This substance, in any quantity, must be secured while not in use so that a person who should not have access to this substance cannot access the substance. Store securely in a cool dry place below 30°C. Do not store with incompatible materials such as strong oxidizing agents (e.g., peroxides, permanganates, nitric acid, etc).

Section 8 Exposure Controls / Personal Protection

Exposure limits or guidelines:	Monensin sodium:	LEG 15 µg/m ³ TWA (12h)
	Grain dust:	PEL 10 mg/m ³ TWA TLV 4mg/m ³ TWA (8h or 12h total)
	Limestone dust:	PEL 5 mg/m ³ TWA (respirable) and 15 mg/m ³ TWA (total) TLV 10 mg/m ³ TWA
The anti-dusting oil reduces potential exposure under normal conditions of use.		

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 NOV 2020 12TH EDITION.

Engineering Controls:

Ensure adequate ventilation.

Personal Protection Equipment



Eyes	Use chemical goggles and/or a face shield.
Hands	In a manufacturing setting, use impervious gloves.
Skin	In a manufacturing setting, use protective clothing. Under normal use and handling conditions, wear impermeable gloves and protective equipment to avoid direct contact with skin. Wash thoroughly with soap and water after handling.
Respiratory	In a manufacturing setting, use dust respirator.
Precautions	Do not feed undiluted to animals. Do not allow dogs, horses or other equines access to feeds containing monensin sodium. Ingestion of monensin sodium by horses has been fatal. The feeding of undiluted premix or feeds containing high concentrations of monensin sodium (mixing errors) could be fatal to cattle. Monensin sodium-medicated feed is safe at approved dosages for use in approved species only. Consumption by unapproved species may result in toxic reactions.

Section 9 Physical and Chemical Properties

Appearance	Solid, Brown, Granular meal
Odour	Musty
Odour Threshold	Not available
pH	Not applicable
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Minimum Ignition Temperature of Dust Layer	300°C (572°F) for Rumensin 80 (18% formulation); 190°C (374°F) for Rumensin 60 (13% formulation)
Upper and Lower Explosive Limits	No ignition up to 1.05 oz/cu ft
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	Not available
Solubilities	Insoluble
Partition Coefficient:	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Not available
Conditions to Avoid	None known.
Incompatible Materials	May react with strong oxidizing agents (e.g., peroxides, permanganates, nitric acid, etc.).
Hazardous Decomposition Products	May emit toxic fumes when heated to decomposition. The product will not polymerise.

Section 11	Toxicological Information
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Acute Effects:

Swallowed	Toxic if swallowed. 24% Monensin sodium mixture: = Rat, LD50 estimated greater than 200mg/kg, mortality. Rumenox In-Feed: = Rat, LD50 314 mg/kg, reduced activity, incoordination.
Dermal	Not applicable. 24% Monensin sodium mixture: = Rabbit, 500 mg/kg, no deaths or toxicity
Inhalation	Not applicable. 24% Monensin sodium mixture: Rat, 370 mg/m ³ for 1 hour, no deaths.
Eye	Causes serious eye damage.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12.	Ecotoxicological Information
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GHS Classifications:

Hazardous to soil organisms
Hazardous to terrestrial vertebrates

Environmental Precautions: This product is particularly toxic to horses and dogs and fish

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

Monensin Sodium (Cas no 22373-78-0)	
Toxicity to fish	
LC50 fish 1	LC50 / 96 h / <i>Oncorhynchus mykiss</i> (rainbow trout): 9.0 mg/l
LC50 fish 2	LC50 / 96 h / <i>Lepomis macrochirus</i> (Bluegill sunfish): 16.6 mg/l
Toxicity to algae	
Aquatic, Algal	EC50 / 72 h / <i>Selenastrum capricornutum</i> : 4.33 mg/l
Aquatic, Algal	(average specific growth rate) NOEC / <i>Selenastrum capricornutum</i> : 0.055 mg/l (biomass)
Toxicity to daphnia	
Aquatic, Crustacean	EC50 / 48 h / <i>Daphnia magna</i> (Water flea) : 10.7 mg/l
Toxicity to Birds	
Species	<i>Bobwhite</i> 14-day oral median lethal dose: 85.7 mg/kg
Species	<i>Bobwhite</i> 5-day dietary median lethal concentration: 1090 ppm
Species	<i>Mallard</i> 5-day dietary median lethal concentration: > 5000 ppm
Toxicity to Soil Organisms	
Species	Earthworm 14-day median lethal concentration: >264.2 mg/kg

Species	Phytotoxicity 14 species: moderate injury at 4 to 8 mg/kg
Species	Phytotoxicity median effective concentration:
Species	oats - 12.9 mg/kg (growth), radish ->4.347 mg/kg(growth), mungbean - 32.9 mg/kg (emergence)
Environmental Fate	
	Soil degradation half-life (days): 7.5
	Greater than 50% loss in sandy, silt, and clay loam soils in less than 14 days
	Soil adsorption coefficient (log Koc): >5.63 (pH 4.5, 6)
	Bioconcentration factor (calculated): 72.4

Section 13. Disposal Considerations

Disposal Method:

Dispose unused or contaminated product at an approved landfill or other approved facility. It is not proposed to refill or reuse the empty containers. Cleaned empty containers may be offered for recycling or buried in a landfill after crushing or puncturing.

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

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012



Road, Rail, Sea and Air Transport

UN No	3249
Class - Primary	6
Packing Group	III
Proper Shipping Name	Medicine, Solid, Toxic, N.O.S (monensin sodium)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5kg, 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

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

EPA Approval Code: HSR002317

GHS Classification:

Acute oral toxicity Cat. 3
 Skin sensitisation Cat. 1
 Serious eye damage Cat. 1
 Hazardous to soil organisms
 Hazardous to terrestrial vertebrates

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100kg (Hazardous to soil organisms)
Emergency Response Plan (Schedule 5)	100kg (Hazardous to soil organisms)
Secondary Containment (Schedule 5)	100kg (Hazardous to soil organisms)
Tracking (Schedule 26)	Not required

Certified Handlers	Not required
HSNO Additional Controls (Restrictions of use)	
	None
Hazardous Property Controls Notice 2017	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 2	Certain substances restricted to workplaces only
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides
ACVM Act and Regulations	
See www.foodsafety.govt.nz for registration Conditions	A011276
Environmental Exposure Limits	
Tolerable Exposure Level (TEL)	Non set
Environmental Exposure Level (EEL)	Non set

Section 16	Other Information
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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 Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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

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