



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Rumenox
 Product Use: **Must only be used for veterinary purposes**
 Restriction 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 – version 7**

Section 2. Hazards Identification

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

EPA Approval Code: HSR100701

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 the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to soil organisms	H422	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 as per Section 8.

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	25-35%	22373-78-0
Other proprietary ingredients	Balance	-

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. If skin irritation occurs seek medical assistance
If Swallowed	IF SWALLOWED: DO NOT induce vomiting. 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	Hazardous decomposition products are likely to be formed in a fire. Evacuate unprotected personnel from the area
Suitable Extinguishing media	Water, carbon dioxide, dry chemical
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. Sweep or scrape recoverable material into a labelled container for re-use. Be aware of potential for dust explosion when using electrical equipment.

Lightly mist unrecoverable material with water and remove by sweeping or wet wiping. Wear protective equipment, including eye protection, to avoid exposure. 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.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

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:

As this product is formulated to cause low dust, forced ventilation should not be required.

Personal Protection Equipment



Eyes	Wear goggles with side shields.
Skin	Wear rubber gloves.
Respiratory	Wear a dust mask

Section 9 Physical and Chemical Properties

Appearance	Light Brown Granule
Odour	Not Available
Odour Threshold	Not available
pH @ 20°C	Not Applicable
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not applicable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Extremely Low
Vapour Density	Not available
Density @ 20°C	0.67 g/cm ³
Solubility in water	Very low solubility in water (active ingredient 4 ppm)
Partition Coefficient:	Not available
Auto-ignition Temperature	Not Available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable
Solvent content: VOC	0.0%

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Not available
Conditions to Avoid	Violent agitation to form dusts
Incompatible Materials	Strong acids, bases and oxidisers
Hazardous Decomposition Products	Toxic fumes are likely to be formed in a fire. The product will not polymerise.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Toxic if swallowed. Varies with animal species from 1-2 mg / kg body weight for horses to 150-200 mg / kg body weight for chickens
Dermal	Not applicable.
Inhalation	Not applicable.

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. Animal studies have shown increase in weights of kidney, heart, liver, spleen, adrenal, testes, thyroid and prostate. sodium monensin has shown no contact or respiratory sensitization in animal studies.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information**GHS Classifications:**

Hazardous to the aquatic environment acute Cat. 1 = Very toxic to aquatic life.

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

Do not allow to enter waterways.

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: HSR100701

GHS Classification:

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

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100kg (aquatic environment Cat. 1)
Emergency Response Plan (Schedule 5)	100kg (aquatic environment Cat. 1)
Secondary Containment (Schedule 5)	100kg (aquatic environment Cat. 1)
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
HSNO Additional Controls (Restrictions of use)	
77A	1. Must only be used for veterinary medicine.
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 A	Site and storage controls for class 9 substances
ACVM Act and Regulations	
See www.foodsafety.govt.nz for registration Conditions	A010896
Environmental Exposure Limits	
Tolerable Exposure Level (TEL)	None set
Environmental Exposure Level (EEL)	None 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

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

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