

# Rumenox<sup>®</sup>

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: Rumenox G  
 Product Use: **Must only be used for veterinary purposes**  
 Restriction of Use: Refer to Section 15

New Zealand Supplier/Mfg: Glenmark Veterinary Limited  
 Address: PO Box 300-311  
 Albany  
 Auckland  
 Telephone: 09 415 6577  
 Fax Number: 09 415 0287

**Emergency Telephone: 0800 764 766 (poison line)**

Date of MSDS Preparation: **7 August 2017 – version 3**

### Section 2. Hazards Identification

This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

EPA Approval Code: HSR100701

Pictograms:



Acutely Toxic



Corrosive



Ecotoxic

**Signal Word: DANGER**

**HSNO Classification    Hazard Code    Hazard Statement    GHS Category**

6.1B (oral)	H300	Fatal if swallowed.	Category 2
6.3B	H316	Causes mild skin irritation.	Category 3
6.5B	H317	May cause an allergic skin reaction.	Category 1
8.3A	H318	Causes serious eye damage.	Category 1
9.1A	H400	Very toxic to aquatic life	Category 1
9.2B	H422	Toxic to the soil environment.	NA
9.3A	H431	Very toxic to terrestrial vertebrates.	NA

**Prevention Code    Prevention Statement**

P102	Keep out of reach of children.
P103	Read label before use.
P104	Read safety data sheet 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.
P331	Do NOT induce vomiting.
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.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Acutely Toxic
<b>Hazards from decomposition products</b>	Hazardous decomposition products are likely to be formed in a fire. Evacuate unprotected personnel from the area
<b>Suitable Extinguishing media</b>	Water, carbon dioxide, dry chemical

<b>Precautions for firefighters and special protective clothing</b>	Protective clothing suitable for chemical or agrichemical fire including self-contained breathing apparatus.
<b>HAZCHEM CODE</b>	<b>2Z</b>

### 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

#### Approved Handlers

**Not required per EPA Approval Code: HSR100701**

#### 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:

None have been set for any component of Rumenox.

#### Engineering Controls:

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

#### Personal Protective Equipment:

Rubber gloves, goggles and dust mask must be worn

### Section 9 Physical and Chemical Properties

<b>Appearance</b>	Light Brown Granule
<b>Odour</b>	Not Available
<b>Odour Threshold</b>	Not available
<b>pH @ 20°C</b>	Not Applicable
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not applicable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Extremely Low
<b>Vapour Density</b>	Not available
<b>Density @ 20°C</b>	0.67 g/cm <sup>3</sup>

<b>Solubility in water</b>	Very low solubility in water (active ingredient 4 ppm)
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not Available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not applicable
<b>Solvent content: VOC</b>	0.0%

#### Section 10. Stability and Reactivity

Chemical Stability	Stable under normal storage and use conditions
Conditions to Avoid	Violent agitation to form dusts
Incompatibility	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

<b>Acute Oral Toxicity</b>	Varies with animal species from 1-2 mg / kg body weight for horses to 150-200 mg / kg body weight for chickens
<b>Acute Dermal Toxicity</b>	No data available
<b>Chronic Effects</b>	animal studies have shown increase in weights of kidney, heart, liver, spleen, adrenal, testes, thyroid and prostate.
<b>Sensitisation</b>	sodium monensin has shown no contact or respiratory sensitization in animal studies
<b>Mutagenicity</b>	No effects in bacterial cells
<b>Carcinogenicity</b>	Not listed as a carcinogen by US OSHA

#### Section 12. Ecotoxicological Information

**HSNO Classifications:** 9.1A, 9.2B, 9.3A  
**Environmental Precautions:** This product is particularly toxic to horses and dogs and fish

**Ecotoxicity Data:**

**Toxicity to fish**

Monensin Sodium

LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 9.0 mg/l

LC50 / 96 h / *Lepomis macrochirus* (Bluegill sunfish): 16.6 mg/l

**Toxicity to algae**

Monensin Sodium

EC50 / 72 h / *Selenastrum capricornutum*: 4.33 mg/l

(average specific growth rate) NOEC / *Selenastrum capricornutum*: 0.055 mg/l (biomass)

**Toxicity to daphnia**

Monensin Sodium

EC50 / 48 h / *Daphnia magna* (Water flea) : 10.7 mg/l

**Toxicity to Birds**

Monensin sodium

*Bobwhite* 14-day oral median lethal dose: 85.7 mg/kg

*Bobwhite* 5-day dietary median lethal concentration: 1090 ppm

*Mallard* 5-day dietary median lethal concentration: > 5000 ppm

### Toxicity to Soil Organisms

Earthworm 14-day median lethal concentration: >264.2 mg/kg

Phytotoxicity 14 species: moderate injury at 4 to 8 mg/kg

Phytotoxicity median effective concentration:

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

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. Do not allow to enter waterways.

## Section 14 Transport Information

Classified as a Dangerous Good for Road Transport according to NZS5433:2012

### Road and Rail Transport

UN No 3077  
 Class-primary 9  
 Packing Group III  
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID N.O.S  
 (monensin sodium)

### Marine Transport

UN No 3077  
 Class-primary 9  
 Packing Group III  
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID N.O.S  
 (monensin sodium)  
 Marine toxin yes

### Air Transport

UN No 3077  
 Class-primary 9  
 Packing Group III  
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID N.O.S  
 (monensin sodium)

## Section 15 Regulatory Information

EPA Approval Code: HSR100701

HSNO Controls

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required (as per HSR100701 controls)
Location Certificate	Not applicable
Tracking Trigger Quantities	Not required (as per HSR100701 controls)
Signage Trigger Quantities	100 kg (9.1A)
Emergency Response Plan trigger Quantities	100 kg (9.1A)
Restriction of use	Must only be used for veterinary purposes

<b>Section 16</b>	<b>Other Information</b>
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1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been compiled by TCC on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC by the manufacturer 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 TCC has 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, TCC accepts 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 proprietor, QA Diagnostic Limited, if further information is required.

Issue Date: 7 August 2017

Review Date: 7 August 2022