



## SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier	
Draduct	Technoulin 2 50/ Dremin
Product:	Techmulin 2.5% Premix
Product Use:	For the control and treatment of chronic respiratory disease in poultry. For the control of swine enzootic (Mycoplasmal) pneumonia, and prevention and treatment of swine dysentery in pigs.
Restriction of Use:	Refer to Section 15
New Zealand Supplier	: Agrihealth NZ Ltd
Address:	Level 2, 89 Grafton Road,
	Auckland 1010
Telephone:	+64 9 215 1199
<b>Emergency No:</b>	0800 764 766 (National Poisons Centre)
Date of SDS Preparati	on: 01 May 2025

Section 2. Hazards Identification

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

# EPA Approval No: HSR100759 – Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2020

### **Pictograms**

Not required

### Signal Word: Warning

GHS Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H316	Causes mild skin irritation

Prevention Code	Prevention Statement
-	-

Response Code	Response Statement
P332 + P313	If skin irritation occurs: Get medical advice/attention

Storage Code	Storage Statement
-	-

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

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Tiamulin hydrogen fumarate	2.5%	55297-96-6
Non-hazardous components	97.5%	-

Routes of Exposure:

If Swallowed	Wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
If Inhaled	Remove person to fresh air. Allow person to assume most comfortable position for breathing. If not breathing, initiate cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
If on Skin	Wash with plenty of soap and water. Remove and wash contaminated clothing. If skin irritation persists: get medical advice/attention.
Precautions	In case of hypersensitivity to the substance, avoid direct contact.
Most important sy Ingestion: Inhalation: Skin: Eye:	mptoms and effects, both acute and delayed symptoms: No data available No data available No data available No data available No data available

Hazard Type	No data available
Hazards from combustion products	May emit toxic fumes under fire conditions. They are carbon monoxide, carbon dioxide, nitrogen oxides and sulphur oxides.
Suitable Extinguishing media	Water spray, dry powder, carbon dioxide, or foam. Use extinguishing media suitable for surrounding fire.
Precautions for firefighters and special protective clothing	As with all fires, evacuate personnel to safe area. Fire fighters should use self-contained breathing equipment and protective clothing.
HAZCHEM CODE	3Z

### 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. In case of spillage, contain the dry material by sweeping or vacuuming. Vacuuming may disperse dust if appropriate dust collection filter is not part of the vacuum. 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. Clean the contaminated area with new polyurethane sponge, soaked in water. Place the spillage in a container for waste disposal. Avoid contamination of water courses or sewers.

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

### Section 7. Handling and Storage

### **Precautions for Handling:**

- Use personal protective clothing and equipment as detailed in section 8
- Use local exhaust hood in the facility (recommended)

### **Precautions for Storage:**

• Store below 25°C, excursions permitted to 40°C

### 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, mist or fumes. Local exhaust hood and general exchange are recommended.

### 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	Wear suitable respiratory equipment such as anti-dust mask (respirator)	
	or local respiratory system	
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	Powder
Colour	White to pale yellow
Odour	Not available
Odour Threshold	Not available
рН	Not available

Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available
Solubility	Not available
Partition Coefficient n-	Not available
octanol/water:	
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
Specific optical rotation	Not available
(0.5% in dioxane)	
рКа	Not available
Minimum cloud ignition	Not available
temperature	
Minimum ignition	Not available
energy	
Electrical volume	Not available
resistivity	

### Section 10. Stability and Reactivity

Stability of Substance	Stable non-reactive dry product in powder form	
Possibility of hazardous reactions	No data available	
Conditions to Avoid	Moisture	
Incompatible Materials	Strong oxidizing materials	
Hazardous Decomposition	Not available	
Products		

### Section 11 Toxicological Information

### Acute toxicity:

Component		Species	Test results
Tiamulin	Acute oral	Rat	2.74 g/kg b.w. (male)
hydrogen	LD <sub>50</sub>		1.83 g/kg b.w. (female)
fumarate	Acute IV	Rat	0.02 g/kg b.w.
	LD <sub>50</sub>		
	Acute SC	Rat	4.38 g/kg b.w.
	LD <sub>50</sub>		
	Acute oral	Mouse	0.77 g/kg b.w. (male)
	LD <sub>50</sub>		0.65 g/kg b.w. (female)
	Acute IV	Mouse	0.049 g/kg b.w.
	LD <sub>50</sub>		
	Acute SC	Mouse	1.02 g/kg b.w.
	LD <sub>50</sub>		

Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available

### **Chronic Effects:**

Tiamulin hydrogen fumarate:

Carcinogenicity	2 years Mouse Oral Not carcinogenic		
	2.5 years Rat Oral Not carcinogenic		
Reproductive	Foetotoxicity/maternal toxicity		
Toxicity	Rat Oral 100 mg/kg/day, NOEL No effects observed		
Germ Cell	Bacterial mutagenicity (Ames) Salmonella Negative		
Mutagenicity	In vitro mammalian cell Chinese hamster cells Negative	ļ	
	In vivo micronucleus Mouse Negative	;	
Aspiration	No data available		
STOT/SE	No data available		
STOT/RE	No data available		

### Section 12. Ecotoxicological Information

Tiamulin hydrogen fumarate:

Species	Test	Result
Blue-green algae (Anabaena flos-	72-hour median effective	0.29 mg/L
aquae)	concentration EC <sub>50</sub> (growth)	
Green algae ( <i>Selensatrum</i>	72-hour median effective	0.165 mg/L
capricornutum)	concentration EC <sub>50</sub> (growth)	
Daphnia magna	48-hour median effective	40 mg/L
	concentration EC50	
	(immobilisation):	
Daphnia magna	48-hour median effective	5.4 mg/L
	concentration EC <sub>50</sub> (reproduction):	
Daphnia magna	48-hour median effective	67 mg/L
	concentration EC <sub>50</sub> (survival):	
Fish (Oncorhynchus mykiss)	96-hour median lethal	20 mg/L
	concentration LC50	
Collembolans (Folsomia fimetaria)	Median lethal concentration LC <sub>50</sub>	≥ 5000 mg/kg
Collembolans (Folsomia fimetaria)	Median effective concentration	475 mg/kg
	EC <sub>50</sub> (reproduction)	
Enchytraeids (Enchytraeus	No observed effect concentration	> 5000 mg/kg
crypticus)	NOEC (survival)	
Earthworms (Apporectodea	14-day median lethal	> 1000 mg/kg
caliginosa)	concentration LC <sub>50</sub>	
Monocotyledon (wheat)	Median effective concentration	211.19 mg/kg
	EC <sub>50</sub> (shoot weight)	
Dicotyledon (French bean)	Median effective concentration	481.72 mg/kg
	EC50 (shoot weight)	
Dicotyledon (radish)	Median effective concentration	47.88 mg/kg
	EC50 (shoot weight)	
Dicotyledon (courgette)	median effective concentration	117.80 mg/kg
	EC50 (shoot weight)	
Dicotyledon (sunflower)	median effective concentration	73.35 mg/kg
	EC <sub>50</sub> (shoot weight)	

Product:	Tiamulin hydrogen fumarate	
Persistence and degradability	Log Kow: -0.05-0.02; 0.27-0.51; 0.9; 2.1-2.2	
	(respectively at pH 4.1, 5, 6, 7)	
рКа	7.64	
Water solubility (25°C)	5.8% w/v	
Bioaccumulation	No data available	

Product Name: Techmulin 2.5% Premix Date of SDS: 01 May 2025

Mobility in Soil	No data available
Results of PBT and VPVB	Tiamulin is not classified as a PBT or vPvB substance
assessment	

### Section 13. Disposal Considerations

### Disposal Method:

Dispose of waste in accordance with all applicable laws and regulations.

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

Section 14	Transport Information	
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### This product is not classified as a Dangerous Good for transport in NZ; NZS 5433:2020

### Road, Rail, Sea and Air Transport

N/A
N/A
N/A
N/A
No
N/A

### Section 15 Regulatory Information

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

EPA Approval No: 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	None known		
ACVM Act and Regulations			
See <u>www.foodsafety.govt.nz</u> for registration	ACVM Registration Number A04209		
Conditions			

### Section 16 Other Information

Glossary			
Cat	Category		
EC <sub>50</sub>	Median effective concentration.		
EEL	Environmental Exposure Limit.		
EPA	Environmental Protection Authority		
HSNO	Hazardous Substances and New Organisms.		
HSW	Health and Safety at Work.		
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms		
	inhaling or ingesting it.		
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.		
LEL	Lower explosive level.		
OSHA	American Occupational Safety and Health Administration.		

SAFETY DATA SHEET:	Techmulin 2.5% Premix	01 May 2025
TEL TLV	Tolerable Exposure Limit. Threshold Limit Value-an expo authority.	osure limit set by responsible
UEL WES	Upper Explosive Level 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

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

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