



### **SAFETY DATA SHEET**

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

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

Product: Monotec

Product Use: Monensin powder for use in drinking water systems

for cattle. Aids in the control of ketosis. Aids in the reduction of bloat. Increases milk protein production

in pasture-fed dairy cows.

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: 9 November 2023

#### Section 2. Hazards Identification

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

### **EPA Approval No: HSR101431**

#### **Pictograms**









Toxic

Chronic Chronic

Corrosive

Ecotoxic

Signal Word: **DANGER** 

GHS Category	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		Hazardous to soil organisms
Hazardous to terrestrial vertebrates		Hazardous to terrestrial vertebrates

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<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children
P103	Read label before use
P261	Avoid breathing dust, fumes, gas, mist, vapours or spray
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 detailed in 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
P391	Collect spillage
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or
	doctor/physician
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P305 +	IF IN EYES: Rinse cautiously with water for several minutes.
P351+P338	Remove contact lenses, if present and easy to do. Continue rinsing
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention
P362 + P364	Take off contaminated clothing and wash it before reuse

<b>Storage Code</b>	Storage Statement
P405	Store locked up

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

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

Ingredients	Wt%	CAS NUMBER.
Monensin sodium	40%	22373-78-0
Polysorbate 80	10-15%	9005-65-6
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. Immediately call a

POISON CENTER or doctor/physician.

If on Skin Wash with plenty of soap and water. If skin irritation or rash occurs:

get medical advice/attention.

If Swallowed Immediately call a POISON CENTER or doctor/physician. Do not

> induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.

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Tel: 64 9 475 5240 Date of SDS: 9 November 2023 www.techcomp.co.nz If Inhaled Remove person to fresh air. Remove contaminated clothing and

loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. If experiencing respiratory

symptoms: Call a POISON CENTER or doctor/physician.

## Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Diarrhea, nausea, vomiting

**Inhalation:** Coughing, shortness of breath, breathing difficulty

**Skin:** Rash, itchiness, redness

**Eye:** Burning, lacrimation, Vision loss

#### Section 5. Fire Fighting Measures

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

#### 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:**

- · 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.
- Store locked up.
- Store below 25°C.
- Store in the original container, away from direct heat or direct sunlight and away from foodstuffs.
- Keep out of reach of children.

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### **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

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.

#### **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 almost white
Odour	Not available
Odour Threshold	Not available
рН	6.5 – 9.5
Boiling Point	Not available
Melting Point	From 263°C to 283°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available
Solubility	In water: Slightly soluble (8.78 mg/L)
	In hydrocarbons: Soluble
Partition Coefficient:	6.59

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Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
<b>Particle Characteristics</b>	Not available

# **Section 10. Stability and Reactivity**

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous	Hazardous polymerisation does not occur
reactions	
Conditions to Avoid	Avoid heat, light and moisture
Incompatible Materials	Strong oxidisers
Hazardous	Not available
Decomposition	
Products	

#### Section 11 **Toxicological Information**

#### **Acute Effects:**

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

### **Chronic Effects:**

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

## **Individual component information:**

### **Acute Toxicity:**

<b>Chemical Name</b>	Oral - LD50	Dermal - LD50	Inhalation - LC50
Monensin sodium	150 mg/kg (rat)	549.60 mg/kg (albino	51.9 mg/m3 (albino
		rat)	rat)
Polysorbate 80	25 g/kg (Mouse)	-	-

### **Section 12. Ecotoxicological Information**

Very toxic to aquatic life. Hazardous to soil organisms. Hazardous to terrestrial vertebrates.

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Product Name: Monotec Date of SDS: 9 November 2023

Tel: 64 9 475 5240 www.techcomp.co.nz SAFETY DATA SHEET: MONOTEC

Product:	
Persistence and	Log Kow: > 6.2 (6.59)
degradability	
Bioaccumulation	No data available
Mobility in Soil	Soil adsorption coefficient (log Koc): 1.79 – 2.49
_	4.0 day half-life
Other adverse effects	No data available

# <u>Individual component information (Please refer to www.epa.govt.co.nz for full details):</u> Monensin sodium

Route	Species	Duration	Value LC <sub>50</sub> /EC <sub>50</sub>
Acute aquatic, fish	Rainbow trout	96 hr	1.88 mg/L
Acute aquatic, Crustacean	Daphnia magna	48 hr	7.29mg/L
Acute aquatic, algae	Algae	72 h	3.41 mg/L

- Phytotoxicity median effective concentration (growth) 3 species:
  - Wheat: 29 mg/kg;Mustard: 4 mg/kg;Red clover: 8 mg/kg.
- Soil microflora:
- Carbon transformation: NOEC > 5 mg/kg (< 25% deviation from controls)
- Nitrogen transformation: NOEC > 5 mg/kg (< 25% deviation from controls)</li>

Do not allow to enter waterways.

### 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 minimisation be practiced.

The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Toxic, Corrosive, Ecotoxic" and that the label also has the appropriate pictograms from section 2, waste type identifier, and the business name, address, and phone number.

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: HSR101431

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HSW (HS) Regulations 2017	Trigger Quantity	
Certified Handler	Not required	
Location Certificate	1000 kg	
Tracking Trigger Quantities (Schedule 26)	Not required	
Signage Trigger Quantities (Schedule 3)	100 kg	
Emergency Response Plan (Schedule 5)	100 kg	
Secondary Containment (Schedule 5)	100 kg	
Restriction of Use	Only use for the intended purpose.	
ACVM Act and Regulations		
See <u>www.foodsafety.govt.nz</u> for	A11770	
registration		
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.

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 TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (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 TCC (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, TCC (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.

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