SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**TDC Monensin 150**
Product Use:	As an aid in the control of ketosis and in the reduction of bloat in Cattle
Restriction of Use:	Refer to Section 15
New Zealand Manufacturer:	**Jaychem Industries Ltd**
Address:	**3 Kordel Place** **East Tamaki, Auckland**
Telephone:	+64 9 274 6647
Fax Number:	+64 9 274 1358
Emergency Telephone:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	3 August 2021

Section 2. Hazards Identification

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

EPA Approval No: HSR101128

Pictograms:

Signal Word: **DANGER**

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
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 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.
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	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt	CAS NUMBER.
Monensin Sodium	15%	22373-78-0
Methylparaben	< 1%	99-76-3
Propylparaben	< 1%	94-13-3
PEG 40 Stearate	1 - 5%	9004-99-3
Non-hazardous ingredients	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. If eye irritation persists: Get medical advice.

If on Skin — Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.

If Swallowed — 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. Seek medical attention if needed.

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. Get medical advice if breathing becomes difficult.

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 products	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Suitable Extinguishing media	Water, carbon dioxide, dry chemical or foam
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

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Contain the spill and prevent further dispersion.

Do not allow to enter waterways.

Contain the spill and prevent further dispersion. Retrieve intact containers from site. Place damage containers into containment devices. Absorb spills with inert material and place in waste containers. Wash the area with water and absorb with further inert material. Collect spilled material and place in sealable containers for subsequent disposal.

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.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Keep out of reach of children.
- Store in the original containers, tightly sealed.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA		**STEL**	
Substance	**ppm**	**mg/m³**	**ppm**	**mg/m³**

No ingredients have exposure limits

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	Wear googles with side shields Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
Skin	Clothing should consist of overalls with long sleeves and impervious gloves.
Respiratory	Use Respiratory protection in areas of poor ventilation.

Section 9 Physical and Chemical Properties

Appearance	White Opaque suspension
Colour	White
Odour	Not Applicable
Odour Threshold	Not Applicable
pH	5.0-7.0
Boiling Point	Not Applicable
Melting Point	Not Applicable
Freezing Point	Not Applicable
Flash Point	Not Applicable
Flammability	Not Flammable
Upper and Lower Explosive Limits	Not Applicable
Vapour Pressure	Not Applicable
Vapour Density	Not Applicable
Specific Gravity	0.95-1.05
Water Solubility	Partially soluble
Partition Coefficient:	Not Applicable
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Applicable
Kinematic Viscosity	Not Applicable
Particle Characteristics	Not Applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Extreme temperatures
Incompatible Materials	Explosives, oxidisers, strong acids or bases.
Hazardous Decomposition Products	No data available.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Toxic if swallowed.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
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

Hazardous to soil organisms
Hazardous to terrestrial vertebrates

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

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: HSR101128

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)	
77A	The substance shall only be used as a 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	
ACVM Approval No	A11280

Section 16 Other Information

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

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, Jaychem, if further information is required.

Issue Date: 3 August 2021 Review Date: 3 August 2026