



SAFETY DATA SHEET According to

HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identif	fication of the material and the supplier
Product: Product Use:	Hostazym X microGranulate An enzyme preparation of endo-1,4-beta-xylanase (IUB 3.2.1.8) produced by Trichoderma longibrachiatum having a minimum activity of 30,000 EPU/g.
Restriction of Use:	Refer to Section 15
New Zealand Supplier: Address:	Agrihealth NZ Ltd Level 2, 89 Grafton Road, Auckland 1010
Telephone: Emergency No:	+64 9 215 1199 0800 764 766 (National Poisons Centre)
Date of SDS Preparation:	22 December 2023
Section 2. Hazard	Is Identification

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

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

Pictograms:



Signal Word: DANGER

GHS Category	Hazard Code	Hazard Statement
Respiratory sensitisation Category 1	H334	May cause allergy or asthma symptoms or breathing difficulty if inhaled

Prevention Code	Prevention Statement
P261	Avoid breathing dust, fumes, gas, mist, vapours or spray
P284	In case of inadequate ventilation, wear respiratory protection

Response Code	Response Statement
P304 + P340	IF INHALED: remove person to fresh air and keep comfortable for breathing
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTRE or a doctor

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.
Endo-1,4-beta-xylanase	~4%	9025-57-4
Pregelatinised starch	~1%	9005-25-8
Wheat meal	~66.5%	-
Calcium carbonate	~28.5%	471-34-1

Remaining components are non-hazardous and/or below required reporting limits.

Section 4.	First Aid Measures

Routes of Exposure:

Most important symptoms and effects, both acute and delayed Symptoms:			
If Inhaled	Remove person to fresh air and allow to breathe normally.		
If Swallowed	Allow the subject to drink a glass of potable water.		
If on Skin	Rinse skin with clean water and dry.		
If in Eyes	Rinse eyes with sterile saline or eye wash.		

Inhalation:In sensitive and allergised individuals, may cause allergy or asthma
symptoms or breathing difficulties if inhaled.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from	When heated to decomposition toxic fumes may be emitted
combustion products	
Suitable Extinguishing	Water spray or foam
media	
Precautions for	Wear full protective clothing and self-contained breathing
firefighters and special	apparatus (SCBA)
protective clothing	
HAZCHEM CODE	Not assigned

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Restrict access to contaminated area. 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

Hostazym X microGranulate

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.

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
- In case of inadequate ventilation wear respiratory protection

Precautions for Storage:

- Store away from incompatible materials listed in Section 10
- 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

Section 8	Exposure	Controls /	Personal	Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm mg/m³	STEL ppm mg/m ³
Pregelatinised starch Calcium carbonate	10mg/m³ 10mg/m³	-

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	Beige to brown granules
Colour	Beige top brown
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
Water Solubility	Soluble in water
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions
Possibility of hazardous reactions	Hazardous polymerisation does not occur
Conditions to Avoid	Store in closed, original containers and avoid generating environmental dust from the product
Incompatible Materials	None
Hazardous Decomposition Products	None

Toxicological Information Section 11

Acute Effects:

Swallowed	Endo-1,4-beta-xylanase: Acute Oral LD ₅₀ : Rat: Could not be determined because the maximum dose that could be administered to rats (4mL/0.2 kg b.w.) did not cause any signs of intoxication and mortality Calcium carbonate: Acute oral LD ₅₀ : Rat: 6.45 g/kg b.w.
Dermal	Not applicable
Inhalation	Enzymes are considered respiratory sensitisers
Eye	Not applicable
Skin	Not applicable

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

Section 12. Ecotoxicological Information

Hostazym X microgranulate has no adverse environmental effects

Product:	
Persistence and degradability	Degrades rapidly through biodegradation
Bioaccumulation	Does not persist in the environment and degrades rapidly through biodegradation
Mobility in Soil	Not applicable
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method:

Dispose of as non-hazardous biological waste in accordance with all applicable laws and regulations.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15 Regulatory Information	
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This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Veterinary Medicines (Non-Dispersive Open Application) Group Standard – **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)	1000 kg
Emergency Response Plan (Schedule 5)	Not triggered
Secondary Containment (Schedule 5)	Not triggered
Restriction of Use	Only use for the intended purpose.

ACVM Act and Regulations	
See <u>www.foodsafety.govt.nz</u> for registration	Exempt from registration
Conditions	

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

SAFETY DATA SHEET:	Hostazym X microGranulate 22 DECEMBER 2023
LD₅₀ LEL OSHA TEL	inhaling or ingesting it. Lethal dose to kill 50% of test animals/organisms. Lower explosive level. American Occupational Safety and Health Administration. Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
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

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

Issue Date:22 December 2023Review Date:22 December 2028