



Date of preparation:
06 January 2015

SAFETY DATA SHEET

Hostazym X 50 MicroGranulate

Section 1: Identification of the Substance and Supplier

Product Name:	Hostazym X 50 MicroGranulate
ACVM Registration Number:	Exempt
Recommended Use:	<i>An enzyme preparation of endo-1,4-beta-xylanase (EC3.2.1.8) produced by Trichoderma sp. having a minimum activity of 30000 EPU/g.</i>
Company Details:	AgriHealth NZ Ltd Unit 1.2, 89 Grafton Road, Grafton, Auckland 1010, New Zealand Phone: +64 9 215 1199 Fax: +64 9 984 9455 Website: www.agrihealth.co.nz
Emergency Telephone:	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111

Section 2: Hazards Identification

Classified as not hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classification according to Commission Directive 2001/59/EC of 6 August 2001

Classification according to Regulation (EC) No 1272/2008 of December 2008

Hazard symbols:



Harmful

Risk phrases:

May cause sensitization by inhalation.

Signal words:



Danger

Hazard statements:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Section 3: Composition / Information on Ingredients

Chemical characterization

Endo-1,4-beta xylanase (main enzymatic activity)

IUB Identification-number: 3.2.1.8

CAS-number: 9025-57-4

Each one gram of HOSTAZYM X 50 MicroGranulate contains not less than 50 EPU of endo-1,4-beta xylanase.

Section 4: First Aid Measures

- General information:** For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor.
Change soaked clothing.
Remove clothing where dust collected.
- After inhalation:** When spray fog inhaled, seek medical advice and show the physician the packing or the packing label.
- After contact with skin:** In case of contact with skin wash off with water.
- After contact with eyes:** In case of contact with eyes rinse immediately for at least 15 minutes with plenty of water.

After ingestion: No special measures necessary.
Rinse mouth thoroughly with water.

Workplace Facilities: No special facilities are required.

Notes for Medical Personnel: Treat exposed patients symptomatically.

Section 5: Fire Fighting Measures

Type of hazard: Non-flammable

Extinguishing Media and Methods: Water spray, foam

Section 6: Accidental Release Measures

Personal precautions: Avoid dust formulation.
Use personal protective clothing.

Methods for cleaning up: Clean equipment with a vacuum cleaner.
Avoid raising dust.
Clean contaminated floors and objects thoroughly,
observing environmental regulations.
When picked up, treat material as prescribed under
heading "Disposal".

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid the formation and deposition of dust.
Provide exhaust ventilation if dust is formed.
Avoid formation of aerosols.

Precautions for protection against fire and explosion

Take precautionary measures against electrostatic loading.
Avoid formation of dust.
Observe the general rules of industrial fire protection.

Storage Keep only in the original container.
Keep container tightly closed, cool and dry.

Approved Handlers: Not required

Section 8: Exposure Control / Personal Protection

Personal protective equipment

General protective measures

Do not inhale dust/mist.

Do not inhale aerosols.

Avoid contact with eyes and skin.

Hygienic measures

Do not eat, drink or smoke during work time.

Keep away from foodstuffs and beverages.

After worktime and during work intervals the affected skin areas must be thoroughly cleaned.

Respiratory protection:

Particle filter half mask, filter P1

Hand protection:

Rubber gloves

Eye protection:

Safety glasses with side protective shield

Skin protection:

Protective clothing

Section 9: Physical and Chemical Properties

Appearance:

Granules

Physical state:

Solid.

Color:

Beige

Boiling point:

No applicable information found

Melting point:

No applicable information found

Vapour pressure:

No applicable information found

Vapour density:

No applicable information found

Section 10: Stability and Reactivity

Conditions to avoid

Elevated temperatures and humidity and direct sunlight.

Section 11: Toxicological Information

Acute oral toxicity

- *Rats*, LD₅₀ > 2000 mg/kg of purified fermentation product/kg b.w.

Sub-chronic repeated dose oral toxicity

- *Rats* 13-week-administration at levels up to 1000 mg/kg of purified fermentation product per day produced no signs of toxicity attributable to administration of xylanase.

Genotoxicity including mutagenicity

The results from two mutagenicity tests performed with purified fermentation product were negative: Ames test with *Salmonella typhimurium* strains and In-vitro Mammalian Chromosomal Aberration Test.

Other types of toxicity

Based on the experience that the strain is safe and the other toxicological studies did not raise any concern, no chronic oral toxicity, reproduction toxicity, teratogenicity studies were performed.

Effects on the respiratory system

Enzymes are considered respiratory sensitizers.

Effects on the eyes and skin

Enzymes are considered skin and eye sensitizers.

Exposure assessment

There is no likely safety concern upon ingestion.

Section 12: Environmental Information

The enzyme is degraded in the gastro-intestinal tract, and as it is of proteinaceous material any remaining material will further degrade in nature. No accumulation will take place.

Section 13: Disposal Considerations

Disposal Information: Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility.

Section 14: Transport Information

Land Transport	Not classified as dangerous goods for transport under NZ Standard 5433:2007 Transport of Dangerous Goods on Land.
Air Transport	Not classified as dangerous goods for transport under International Civil Aviation Organisation and International Air Transport Association regulations
Sea Transport	Not classified as dangerous goods for transport under International Maritime Organisation regulations
UN Number	N/A
Proper Shipping Name	N/A
DG Class	N/A
Subsidiary Risk	N/A
Packing Group	N/A
HAZCHEM Code	N/A
Marine Pollutant	No

Section 15: Regulatory Information

Regulatory Status:	Exempt from registration under the ACVM Act 1997.
HSNO and ACVM Controls:	N/A
List Exposure Limits:	None set

Section 16: Other Information

Additional Information:	For product information see the AgriHealth website: www.agrihealth.co.nz
Date of preparation:	06 January 2015
Due for revision within	5 years.

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