

Hostazym X 100

MATERIAL SAFETY DATA SHEET

Revised September 2010

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1. IDENTIFICATION OF SUBSTANCE

Product Details

- Trade Name: **Hostazym X 100**
- Product Number: 2140
- Manufacturer: BIOVET JSC
39, Petar Rakov Str.
4550 Peshtera
Bulgaria
- Supplier: Huvepharma Inc.
3360 Maury Avenue
St. Louis, MO 63116

2. COMPOSITION / DATA ON COMPONENTS

Chemical Characterization

Endo-1,4-beta-Xylanase (main enzymatic activity)
CAS-number: 9025-57-4
EINECS-number: 232-800-2

3. HAZARDS IDENTIFICATION

- Xn Harmful
- May cause sensitization by inhalation.

4. FIRST AID MEASURES

- **After Inhalation:** When spray fog inhaled, seek medical advice and show the physician the packing or the packing label.
- **After skin contact:** In case of contact with skin wash off with water.
- **After eye contact:** In case of contact with eyes rinse immediately for at least 15 minutes with plenty of water.
- **After swallowing:** No special measures necessary. Rinse mouth thoroughly with water.
- **General information:** Change soaked clothing. Remove clothing where dust collected.

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<p>5. FIRE FIGHTING MEASURES</p> <ul style="list-style-type: none">▪ Extinguishing Methods: Water, foam.
<p>6. ACCIDENTAL RELEASE MEASURES</p> <ul style="list-style-type: none">▪ Personal Precautions: Avoid dust formulation. Use personal protective clothing.▪ Methods for cleaning up/taking up: Clean equipment with vacuum cleaner. Avoid raising dust. Clean contaminated floors and objects thoroughly, observing environmental regulations. When picked up, treat material as prescribed under heading 'Disposal'.
<p>7. HANDLING AND STORAGE</p> <p>Handling Precautions</p> <ul style="list-style-type: none">▪ Avoid the formation and deposition of dust.▪ Provide exhaust ventilation if dust is formed.▪ Avoid formulation of aerosols . <p>Protection Against Fire and Explosion</p> <ul style="list-style-type: none">▪ Take precautionary measures against electrostatic loading.▪ Avoid formation of dust.▪ Observe the general rules of industrial fire protection. <p>Storage</p> <ul style="list-style-type: none">▪ Keep only in the original container.▪ Keep container tightly closed, cool and dry.
<p>8. EXPOSURE CONTROLS AND PERSONAL PROTECTION</p> <p>Personal Protective Equipment</p> <ul style="list-style-type: none">▪ General protective measures<ul style="list-style-type: none">○ Do not inhale dust.○ Do not inhale aerosols.○ Avoid contact with eyes and skin.▪ Hygenic measures<ul style="list-style-type: none">○ 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.

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8. <u>EXPOSURE CONTROLS AND PERSONAL PROTECTION</u> (contd) <ul style="list-style-type: none">▪ Respiratory protection: Particle filter half mask, filter P1▪ Hand protection: Rubber gloves▪ Eye protection: Safety glasses with side protective shield▪ Skin protection: Protective clothing
9. <u>PHYSICAL AND CHEMICAL PROPERTIES</u> <ul style="list-style-type: none">▪ Form: Granules▪ Color: white to beige▪ Odor: characteristic▪ Solubility in water: Soluble▪ pH value: 5 to 7 at 1 g/l
10. <u>STABILITY AND REACTIVITY</u>
11. <u>TOXICOLOGICAL INFORMATION</u> <ul style="list-style-type: none">▪ Acute oral toxicity<ul style="list-style-type: none">○ LD50 > 2000 mg/kg○ Species: rat○ Remarks: The information refers to the purified fermentation product.
12. <u>ECOLOGICAL INFORMATION – ECOTOXOLOGICAL EFFECTS</u>
13. <u>DISPOSAL CONSIDERATIONS</u> <p>Dispose of in accordance with local authority regulations.</p>

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14. TRANSPORT INFORMATION

Road transport

ADR; Non-hazardous goods

Rail transport

RID; Non-hazardous goods

Inland waterways transport

ADNR; Non-hazardous goods

Marine transport

IMDG/UN; Non-hazardous goods

Air transport

ICAO/IATA-DGR; Non-hazardous goods

15. REGULATIONS

Labeling in accordance with GefStoffV/EC

hazard warning labeling compulsory

Hazard symbols

Xn Harmful

R phrases

42 May cause sensitization by inhalation.

S phrases

22 Do not breathe dust.

23.4 Do not breathe spray.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact: Huvepharma, Inc. 770-486-7212