



# SAFETY DATA SHEET

## POWDER ENVOZYME

POWDER ENVOZYME  
Revision 1  
Revision Date: 27-Apr-2015

### 1. COMPANY AND PRODUCT IDENTIFICATION

<b>Product Name</b>	POWDER ENVOZYME
<b>Description</b>	Tan powder with characteristic odor.
<b>Other means of Identification</b>	None
<b>Recommended Use</b>	Bacterial treatment
<b>Uses advised against</b>	No information available
<b>Supplier Name</b>	Halabi Chemicals Ltd.
<b>Supplier Address</b>	127 Ozerna Rd. NW Edmonton, AB T5Z 2Z4
<b>Supplier Phone Number</b>	(780) 473 2608
<b>Supplier Fax Number</b>	(780) 475 0953
<b>Supplier Email</b>	<a href="mailto:info@halabichemicals.ca">info@halabichemicals.ca</a>
<b>Emergency Phone Number</b>	(780) 932 3848

### 2. HAZARDS IDENTIFICATION

#### Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### GHS Label Elements, including Precautionary Statements

<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	May form combustible dust concentrations in air.

#### **Precautionary Statements – Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves and eye protection.

**Precautionary Statements – Response**

See First Aid Measures Section

**Skin**

IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

**Precautionary Statements – Storage**

None

**Precautionary Statements – Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

Causes mild skin irritation  
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Interactions with Other Chemicals**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a wheat-bran based powder containing naturally-occurring viable bacterial cultures.

**HAZARDOUS INGREDIENTS**

<b><u>Name</u></b>	<b><u>CAS #</u></b>	<b><u>% BY WEIGHT</u></b>	<b><u>TRADE SECRET</u></b>
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**4. FIRST AID MEASURES**

**First aid measures**

<b><u>General Advice</u></b>	Show this safety data sheet to the Doctor in attendance
<b><u>Eye Contact</u></b>	Rinse thoroughly with plenty of water, also under eyelids. If symptoms persist, call a physician.
<b><u>Skin Contact</u></b>	Wash with soap and water. In the case of skin irritation or allergic reactions, see a physician.
<b><u>Inhalation</u></b>	Remove to fresh air.
<b><u>Ingestion</u></b>	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

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

None

**Indication of any immediate medical attention and special treatment needed**

Notes to Physician    None

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

None

**Uniform Fire Code**    None

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact**    No

**Sensitivity to Static Discharge**    No

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**    Avoid contact with skin and eyes

**Environmental precautions**

Refer to protective measures listed in Sections 7 and 8

### **Methods and material for containment and cleaning up**

**Containment** Prevent further leakage or spillage if safe to do so.

**Cleaning up** Pick up and transfer to properly labelled containers.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin and eyes.

### **Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed.  
**Incompatible Products** Strong acids and alkalis, and strong oxidizing agents may react with product and de-nature stable enzymes and inactivate bacterial cultures.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Control Parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11<sup>th</sup> Cir., 1992)

### **Appropriate Engineering Controls**

**Engineering Measures** Showers, Eyewash stations, Ventilation systems.

### **Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** None required for consumer use. If powder generation is likely to occur, wear safety glasses and a dust mask.

**Skin and Body Protection** None required for consumer use. Repeated or prolonged contact: Wear protective gloves and protective clothing.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practices.  
Take off contaminated clothing and wash before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical State</b>	Powder
<b>Appearance</b>	Tan
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	No information available

### Property

<b>pH</b>	None
<b>Melting/Freezing Point</b>	No data available
<b>Boiling Point/ Boiling Range</b>	None
<b>Flash Point</b>	None
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	None
<b>Upper/Lower flammability Limits</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	Dispersible
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>VOC Content (%)</b>	Negligible

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to Avoid

Do not exposed to extreme temperatures for long periods of time. Close containers when not in use.

### Incompatible Materials

Strong acids and alkalis, and strong oxidizing agents may react with product and de-nature stable enzymes and inactivate bacterial cultures.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

<b>Inhalation</b>	Specific test data for the mixture is not available.
<b>Eye Contact</b>	Specific test data for the mixture is not available.
<b>Skin Contact</b>	Specific test data for the mixture is not available.
<b>Ingestion</b>	Specific test data for the mixture is not available.

**Component Information** No information available.

**Information on toxicological effects**

**Symptoms** None known.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity** No information available.

**STOT – single exposure** No information available.

**STOT – repeated exposure** No information available.

**Chronic Toxicity** No known effect based on available information.  
**Target Organ Effects** Skin.

**Aspiration Hazard** No information available.

**Numerical measures of Toxicity**

Not applicable

**12. ECOLOGICAL INFORMATION**

**Eco-toxicity, Persistence and Degradability, and Bioaccumulation**

This product is not expected to be dangerous to the environment with respect to mobility, persistency and biodegradability, bio-accumulative potential, aquatic toxicity, and other data related to eco-toxicity.

**Other adverse effects**

None known.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

**Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal Regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult with the appropriate State, Regional, or Local regulations for additional requirements.

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations.

### 14. TRANSPORTATION INFORMATION

**DOT** Not Regulated  
**Proper Shipping Name** Not Regulated  
**Hazard Class** N/A

**IDG** Not Regulated  
**MEX** Not Regulated  
**ICAO** Not Regulated  
**IATA** Not Regulated  
**IMDG/IMO** Not Regulated  
**RID** Not Regulated  
**ADR** Not Regulated  
**ADN** Not Regulated

### 15. REGULATORY INFORMATION

#### International Inventories

**TSCA** Complies  
**DSL** All components are listed either on the DSL or NDSL

**TSCA** – United States Toxic Substances Control Act – Section 8(b) Inventory  
**DSL/NDSL** – Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or State level pertaining to releases of this material.

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**US State Right-to-Know Regulations**

This product does not contain any substances above threshold limits that are regulated by State right-to-know.

**16. OTHER INFORMATION**

Hazardous Material Information System (HMIS)	<b>HEALTH</b>	<b>1</b>
	<b>FLAMMABILITY</b>	<b>0</b>
	<b>PHYSICAL HAZARD</b>	<b>0</b>
	<b>PERSONAL PROTECTION</b>	<b>E</b>



## **ADDITIONAL INFORMATION**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.

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Prepared by: HC  
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