

PRODUCT CODE:

## MATERIAL SAFETY DATA SHEET

Comply with OSHA'S Hazard Communication Standard, 29 CFR 1910.1200.

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HMIS RATING: HEALTH = 2 FLAMMABILITY = 0 REACTIVITY = 0 PROTECTION = B  
NFPA RATING: HEALTH = 2 FLAMMABILITY = 0 REACTIVITY = 0

IDENTITY(As used on Label and List):

ENZYMATIC DETERGENT

### SECTION I - Contact Information

Hu-Friedy®

3232 N. Rockwell Street

Chicago, Illinois 60618-5982

Emergency Telephone Numbers:

Contact Your Regional Poison Control Center  
or 1-800-535-5053 (24 Hours)

For Information call 1-312-975-6100

### SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components Specific Chemical Identity; CAS Number	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Amphoteric Surfactant	N/D	N/D	N/D	
Bacterial Protease, #9014-01-1	0.06 µg/m³	N/D	N/D	
Bacterial amylase, #9000-85-5	N/D	N/D	N/D	
Citric Acid, #77-92-9	N/D	N/D	Oral LD50 Rat 11,700mg/kg	

DOT: Non-hazardous.

All ingredients in this product are on the TSCA list.

This product does not contain an amount of any chemical required to be reported under SARA 313.

### SECTION III - Physical/Chemical Characteristics

Boiling Point: 100-105 C

Specific Gravity (H<sub>2</sub>O = 1): 1.12

Vapor Pressure (mm Hg.): N/A

Melting Point: N/A

Vapor Density (AIR = 1): N/A

Evaporation Rate (Butyl Acetate = 1): N/A

Solubility in Water: 100% miscible

Appearance and Odor: Purple, viscous solution.

### SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used): >200 F

Flammable Limits: LEL: N/A

UEL: N/A

Extinguishing Media: Dry chemical, carbon dioxide, water fog.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

### SECTION V - Reactivity Data

Stability: Stable

Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents.

Hazardous Decomposition or By-products: Carbon monoxide and carbon dioxide upon combustion.

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

## **SECTION VI - Health Hazard Data**

### **Route(s) of Entry:**

**Inhalation:** N/A      **Skin:** Yes      **Ingestion:** Yes

**Health Hazards (Acute and Chronic):** Skin: Prolonged contact may cause irritation. Eyes: Can cause irritation. Ingestion: Can cause gastrointestinal irritation, nausea or diarrhea.

**Carcinogenicity:**    **NTP:** N/A      **IARC Monographs:** N/A      **OSHA Regulated?:** N/A

### **Signs and Symptoms of Exposure:**

**Inhalation:** Possibly hay fever type symptoms from dried enzymes.      **Eyes:** Irritation.    **Skin:** Irritation    **Ingestion:** Gastrointestinal irritation, nausea or diarrhea.

### **Medical Conditions Generally Aggravated by Exposure:**

Dermatitis

### ***Emergency and First Aid Procedures:***

**Skin:** Wash with soap and water. **Eyes:** Flush with water for 15 minutes. Seek medical attention.  
**Ingestion:** Rinse mouth, give water and seek medical attention.

## **SECTION VII - Precautions for Safe Handling and Use**

### **Steps to Be Taken in Case Material is Released or Spilled:**

Absorb spill with dry absorbent. Wash down with soap and water.

### **Waste Disposal Method:**

Dispose of in accordance with all applicable local, state and federal regulations. Product is biodegradable.

### **Precautions to Be Taken in Handling and Storing:**

Store in a cool, dry area. Keep out of reach of children.

### **Other Precautions:**

Avoid extremely high temperatures, or long exposure to heat.

## **SECTION VIII - Control Measures**

**Respiratory Protection (Specific Type):** N/A

**Ventilation:**    **Local Exhaust:** None

**Mechanical (General):** None

**Special:** None

**Other:** None

**Protective Gloves:** Rubber/Polyethylene

**Eye Protection:** Safety glasses

**Other Protective Clothing or Equipment:**

None

### **Work/Hygienic Practices:**

Avoid splashing

**Note:** N/A as an information entry means the data is not applicable, available or determined.