



## MATERIAL SAFETY DATA SHEET

### ClearPrep® Enzymatic Multi-Purpose Cleaner

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Wauconda, IL 60084 USA <http://enzymes-inc.com>

Enzymes, Inc. (EI) urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals that are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety: (2) furnish this same information to each of its customers for the product: and (3) request its customers to notify their employees, customers, and other users of the product of this information.

### SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

**Trade Name:** ClearPrep® Enzymatic Multi-Purpose Cleaner (EMC)  
**Revision Date:** 02/24/2009  
**CAS Name:** Mixed Enzyme Cleaning Agent  
**Product Description:** Concentrated non-bacterial, 100% readily biodegradable enzymatic solution.  
**Manufacturer's Name:** Enzymes Incorporated  
**Address:** 1099 Brown Street #102 Wauconda, IL 60084-3105 USA  
**Phone:** (847) 487-5401

### SECTION 2 - COMPOSITION & INFORMATION ON INGREDIENTS

NAME	CAS#	WT.	% TLV
ClearPrep® EMC is a proprietary composition NOT CONSIDERED HAZARDOUS under OSHA Hazard Communication Standard CFR Title 29 1910.1200			

### SECTION 3 - PHYSICAL & CHEMICAL PROPERTIES

<b>Vapor Pressure:</b>	As water @ 68°F (20°C)	<b>Boiling Point:</b>	> 212°F (100°C)
<b>Vapor Density (air = 1):</b>	0.62	<b>Flash Point:</b>	> 212°F (100°C)
<b>Specific Gravity:</b>	1.01 – 1.02 @ 68°F (20°C)	<b>Freezing Point:</b>	< 2°F (-17°C)
<b>Solubility in Water:</b>	Miscible	<b>Viscosity:</b>	1.0 cps @ 68°F (20°C)
<b>Volatile Organic Content:</b>	None	<b>Evaporation Rate:</b>	<0.01 *N-butyl acetate = 1
<b>Appearance:</b>	Translucent amber liquid	<b>Weight:</b>	8.47 – 8.51 lb./ gallon
<b>pH:</b>	6.3 - 7.2 Neat @ 68°F (20°C)	<b>Odor:</b>	Mild non-offensive

### SECTION 4 - FIRE FIGHTING MEASURES

**Flammable Properties:** Non-Flammable  
**Flash point:** > 212°F (100° C)  
**Method Used:** Open Cup  
**Flammable Limits:** Does Not Apply  
**Hazardous Combustion Products:** None Known  
**Fire Fighting Measures:** Wear self-contained breathing apparatus and protective clothing. Use water to cool containers. Turn off electrical service to eliminate source of ignition.

### SECTION 5 - STABILITY & REACTIVITY

**Hazardous Polymerization:** Hazardous polymerization will not occur.  
**Materials to Avoid:** Any contact with strong oxidizing and reducing agents.  
**Conditions to Avoid:** See Section 11.  
**Hazardous Decomposition Products:** None known.

## SECTION 6 - HAZARDS IDENTIFICATION & FIRST AID MEASURES

### HMIS® III HAZARD RATINGS

HEALTH – 1      FLAMMABILITY – 0      PHYSICAL HAZARD – 0      PPE – A

**Routes of Entry:**

Product may enter the body via eye and skin contact, and ingestion.

**Eye:**

**POTENTIAL HEALTH EFFECTS:**  
Eye contact may cause irritation. Avoid eye contact.

**Skin:**

Prolonged skin contact may cause irritation. Avoid skin contact.

**Ingestion:**

Swallowing product may cause irritation of mouth and throat. It may also cause nausea. Do not taste or swallow product.

**Inhalation:**

If aerosol of neat product is inhaled seek medical attention if allergic response is exhibited.

### FIRST AID MEASURES

**Eye Contact:**

Check for and remove contact lenses if present and immediately flush eyes with a directed stream of water for at least 15 minutes while forcibly holding eyelids open to ensure complete irrigation of all eye and eyelid tissue. Do not rub eyes while rinsing.

**Skin Contact:**

Flush skin with water while gently rubbing the affected area. If clothing is penetrated remove clothing and flush skin with water as described. Wash clothing before reuse.

**Ingestion:**

Give 2 glasses of water. Rinse mouth and throat thoroughly with water. Do not induce vomiting. If spontaneous vomiting is inevitable, prevent aspiration by keeping victim's head below the knees.

**Inhalation:**

Remove to fresh air. Seek medical attention if allergic response is exhibited.

## SECTION 7 - ACCIDENTAL RELEASE MEASURES

**Any Spill:**

Contain spill. Use absorbent and sweep up material. Dispose in accordance with all applicable federal, state, and local health and environmental regulations. Rinse area with water.

## SECTION 8 - TOXICOLOGICAL INFORMATION

**Toxicity:**

Not applicable.

**Pathogenicity:**

Not applicable.

**Carcinogenicity:**

Not applicable.

## SECTION 9 - ECOLOGICAL INFORMATION

This product is believed not to be dangerous to the environment with respect to mobility, persistency and degradability, bioaccumulative potential, aquatic toxicity and other data relating to ecotoxicity. Product is 100% readily biodegradable.

## SECTION 10 - EXPOSURE CONTROLS & PERSONAL PROTECTION

**Gloves:**

Gloves are recommended for prolonged and direct undiluted product exposure.

**Safety Glasses:**

Use of safety glasses is recommended when handling undiluted product.

**Inhalation:**

Do not atomize or form an aerosol. No respiratory protection is required for proper use.

## SECTION 11 - STORAGE & HANDLING

**Storage:**

Store product below 100°F (38°C) in a cool, dry, well ventilated area away from heat, sparks, flame, oxidizers, and out of direct sunlight. Do not allow product to freeze. For best results, use product within 12 months. Never combine with bactericides or quaternary disinfectants as these degrade / inactivate enzymes. Never mix or combine with other products.

**General Precautions:**

Keep container closed and away from children and animals. Do not atomize or create an aerosol.

## SECTION 12 - OTHER INFORMATION

Disclaimer: The information contained herein is based upon data available to us and reflects our best professional judgment. However, no warranty is expressed or implied regarding the accuracy of such information or the results obtained from the use thereof. EI assumes no legal responsibility whatsoever for any damage resulting from reliance upon this information since it is being furnished upon the condition that the person receiving it shall make his or her own determination of the suitability of the material described herein for a particular application or storage situation.