

# MATERIAL SAFETY DATA SHEET

WINSTON COMPANY, INC.  
7704 E. 38<sup>th</sup> St.  
Tulsa, OK 74145

## GENERAL INFORMATION

Product Name	Enviro-Zyme 414 HE 10X
Name and/or Family or Description:	Enzyme
Chemical Family	Protease Enzyme Mixed with Amylase, and Lipase Enzymes
Formula	Does not apply
CAS Number	9014-01-1, Subtilisin 900-85-5, Amylase 9001-62-1, Lipase
Issue Date	<b>January 3, 2009</b>
Emergency and/or Information	800/331-9099; 918/366-6363; Fax 918/366-6361 Business Hours 8 a.m. to 5 p.m., Monday thru Friday

## HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	OCCUPATIONAL EXPOSURE LIMITS TLV	VAPOR PRESSURE
Bacterial Protease	N/A	$2.7 \times 10^{-6} \text{ AU/m}^3$	As Water

## PHYSICAL DATA

Appearance and Odor	Amber (natural) or Blue/Green
State:	Liquid
Boiling Point:	100-105C
Melting Point:	N/A
Evaporation Rate:	As Water
Storage Conditions:	Store tightly closed in cool, dry place
Solubility in Water	N/A (Aqueous Solution) 100% Miscible

## FIRE AND EXPLOSION HAZARD DATA

Flash Point:	*
Ignition Temperature:	*
Flammable Limits:	N/A (Aqueous solution)

No special requirements, however, self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

**Date: January 3, 2009**

Extinguishing Media: No special requirements  
Special Fire  
Fighting Procedure: As toxic fumes of ammonia and sulfur oxides may be released Violently at high temperatures, full protective clothing and NIOSH-approved self-contained breathing apparatus should be worn. Use water to keep fire-exposed containers cool.

Unusual Fire Explosion Hazards: May explode if mixed with oxidizers, such as potassium nitrate, or potassium nitrite or potassium chloride.

\* Information not available

### **HEALTH HAZARD INFORMATION**

Exposure Limits None established

#### **Effects/Symptoms of Exposure**

Inhalation: Chronic exposure may lead to allergic sensitization, based on exposure levels, duration and susceptibility. Subsequent chronic or acute exposure in sensitized individual can cause a respiratory allergic reaction within minutes or delayed up to 24 hours, or a mixture of both. Typical symptoms are respiratory irritation, breathlessness, coughing, chest tightness and difficulty breathing.

Skin Contact: May cause irritation on prolonged or repeated contact with skin.

Eye Contact: May cause eye irritation upon direct contact.

Ingestion: Ingestion of large quantities may cause symptoms of gastrointestinal irritation.

#### **Recommended First Aid**

Inhalation: Immediately remove individual to fresh air.

Skin Contact: Wash exposed skin thoroughly with soap and water. Remove affected clothes and wash.

Eye Contact: Flush eye with water for at least 15 minutes.

Ingestion: Drink water, then induce vomiting by having person stick finger down throat. Keep head below hips to prevent aspiration into lungs. If allergic symptoms occur in 0-48 hours, seek medical attention.

Other Information: Follow good industrial hygiene practices. Primary routes of entry are inhalation, skin contact, and eye contact. Not classified as a carcinogen.

**Date: January 3, 2009**

**SPECIAL PROTECTION INFORMATION**

Respiratory Protection: None required under normal conditions of use. If risk of inhalation may occur, respiratory protective equipment must be selected and used in accordance with OSHA/NIOSH guidelines.

Ventilation: Recommend well ventilated work environment. Local exhaust as needed to prevent dust or aerosol generation.

Protective Clothing

Eyes: Wear safety glasses or goggles under dusty conditions. **Do not** wear contact lenses.

Skin: Wear long sleeved shirt, trousers and impermeable gloves, such as rubber or polyethylene.

Additional Protective Measures: Clothes sufficient to avoid contact. Safety shower, eye bath and washing facilities available.

Extinguishing Media: No special requirements.

Special Fire Fighting Procedure: As toxic fumes of ammonia and sulfur oxides may be released violently at high temperatures, full protective clothing and NIOSH-approved self-contained breathing apparatus should be worn. Use water to keep fire-exposed containers cool.

Unusual Fire Explosion Hazards: May explode if mixed with oxidizers, such as potassium nitrate, or potassium nitrite or potassium chloride.

**REACTIVITY DATA**

Stability Stable

Materials to Avoid: None Known

Hazardous Decomposition Products: None Known

Hazardous Polymerization Will not occur

**Spill or Leak Procedures**

Steps to be taken if material is released or spilled: Dispose of this material and any absorber material (see below) in closed containers in a sanitary chemical landfill which complies with city, state and federal regulations.

Waste Disposal Method: Dike and adsorb spill with inert materials - small quantities can be flushed thoroughly with water to appropriate chemical waste sewer. (avoid high pressure washing.)

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**D.O.T. SHIPPING INFORMATION**

Proper Shipping Name	None
Hazard Class	None
ID Number	None
Label Requirements	None
Reportable Quantity	None

**ADDITIONAL INFORMATION**

Storage Keep container closed when not in use. Store in cool dry area.

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