

The Butler Corporation

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HAZARD RATING HMIS

Health = 2, Flammability = 0, Reactivity = 0
 (Index: 4 = very high, 3 = high, 2 = moderate
 1 = slight, 0 = insignificant)

Material Safety Data Sheet**I. General Information**

Trade Name & Synonym Enzyme detergent	Chemical Family Surfactant/detergent	
Chemical Name & Synonym Mixture	Date prepared Jan. 1996	Prepared by Aziz Ullah Ph.D.

II. Ingredients

Biodegradable anionic surfactants, Soda ash or complex phosphates, Complexing agents, Proteolytic Enzymes

III. Physical Properties

Boiling Point NA	Specific Gravity(Water=1) Approx. 0.6
Vapor Pressure(mm Hg.) NA	Melting Point ND
Vapor Density(AIR=1) NA	Evaporation Rate (Butyl Acetate=1) NA
Solubility in Water Soluble	Appearance and odor White powder with irregular granules
pH (Powder 1% solution,) about 10	

IV. Fire and Explosion Hazard Data

Flash Point (TOC) NA	Flammable Limits	LEL NA	UEL NA
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Extinguishing Media

Foam, CO₂, Dry Chemical, Water Fog

Special Fire Fighting Procedures

Usual Fire fighting procedures can be used

Unusual Fire and Explosion Hazards

None Known

V. Reactivity Data

Stability	Unstable	Conditions to avoid
	Stable X	

Incompatibility (Materials to avoid)

Acids, Strong oxidizing agents

Hazard Decomposition or Byproducts

When exposed to fire emits normal products of combustion

Hazardous Polymerization	May occur	Conditions to avoid
	Will not occur X	

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VI. Health Hazard Data

Routes of Entry	Inhalation	Skin	Ingestion	Eyes
	No	Yes	No	Yes

Health Hazards

Direct contact of product with eyes can cause severe irritation, product can cause discomfort if taken internally. Because of Proteolytic Enzymes contact with Skin should be avoided.

Signs and Symptoms of Exposure

Irritation discomfort

Medical Conditions Aggravated by Exposure

None known

Emergency and First Aid Procedures

Flush Thoroughly with water If irritation persists see physician if ingested drink milk or water see physician

VII. Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Flush with water, or sweep up and containerize (Non-Hazardous waste)

Waste Disposal Method

Check with federal state or local regulations, waste may be discharged into sanitary sewer as non -hazardous waste if regulations permit

Precautions to be taken in Handling and Storing

Keep away from heat, keep away from eyes and repeated or prolonged contact with skin

Other Precautions

NA

VIII. Control Measures

Respiratory Protection

General room ventilation is adequate

Ventilation	Local Exhaust	Special
Not normally required		

Mechanical	Other

Protective Gloves

For repeated contact impermeable gloves suggested

Eye Protection

Glasses suggested

Other Protective Clothing or Equipment

NA

Work/Hygienic Practices

Wash after handling Keep out of reach of children

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