

ROYAL SOAP & CHEMICAL CO., INC.

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MATERIAL SAFETY DATA SHEET

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Product Name: LOYALZYME ENZYME DIGESTER

Product Code: 1110

Chemical or Common Name: BIOLOGICAL ENZYMES

Date Issued:09/09/99

Prepared By: JEFF ADLER

Supersedes: 03/17/94

1. Hazardous Information

materials marked with an * are subject to the reporting requirements under the Super fund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313 and CFR Part 372

Chemical Name	Cas Numbers	Weight %	Exposure Information
NONE			

2. Physical Data

Solubility in Water: Complete

Specific Gravity (Water=1): 1.0

Melting or Freezing Point: ND

Boiling Point: 212 F

Vapor Density (air=1): Equal to Water

Viscosity: Thin Liquid

Percent Volatile (By Wt): ND

pH: 7.4 ±.5

Appearance-Odor: Pale liquid with a mild fragrance

Vapor Pressure (MM HG): ND

Evaporation Rate (BU AC=1): ND

3. Fire and Explosion Data

Extinguishing Media Foam X CO2 X Dry Chemical X water Fog X Other

Special Fire Fighting Procedures: Normal fire fighting procedures may be used.

Unusual Fire & Explosion Hazards: Note noted.

Flash Point: ND

Auto ignition Temp: ND

Lower Explosion Limit: ND

Upper Explosion Limit: ND

4. Health Data

Recommended Health Guide TWA (Maximum Time Weighted Average Concentration For An 8 Hour Work Period). **ND**

Effects of Overexposure: Eyes: Direct contact with eyes can cause irritation. Product may cause irritation and nausea if taken internally. Prolonged or repeated contact of product with skin may cause irritation. Product spray or mist may cause irritation to nose, throat and lungs, if adequate ventilation is not employed.

Emergency and First Aid Procedures

Inhalation: If difficulty or discomfort in breathing is experienced, remove to fresh air and get medical attention. **Eye & Skin Contact:** Flush eyes with water for 15 minutes. If irritation persists, consult a physician. Wash skin thoroughly. If irritation persists, consult a physician. **Ingestion:** Do not induce vomiting. Drink large quantities of water or milk. Call a physician immediately.

5. Reactivity Data

Stability: STABLE

Conditions To Avoid: NONE NOTED

Hazardous Decomposition Products:When exposed to fire , produces normal products of combustion.

Hazardous Polymerization: WILL NOT OCCUR

Incompatibility (Materials To Avoid): **DO NOT MIX WITH OTHER CHEMICALS.** Acids or alkali compounds will inactivate biological cultures.

6. Spill or Leak Procedure

Steps to be taken if material is released or spilled: Dike large spills. Absorb with absorbent material. Sweep up and Containerize. Rinse affected area with water.

Waste Disposal Information: For undiluted material disposal is regulated under the Resource Conservation and Recovery act as corrosive waste. Disposal for regulated quantities by neutralization at a permitted facility in accordance with all Federal, State and Local regulations.

7. Special Protection Information

Respiratory Protection (Specify Type): No special requirements under normal use. If mist/vapors are not adequately controlled by local ventilation, use appropriate respiratory protection to prevent overexposure.

Ventilation: Normal room ventilation should be adequate.

Protective Gloves: Rubber or PVC

Eye Protection: Splash proof goggles where eye contact may occur.

Other Protective Information: If available

8. Special Precautions

Precautionary Labeling: Keep out of the reach of children. Avoid eye contact. Wash hands after using material.

Other Handling And Storage Conditions: Store in a cool dry area.

9. Additional Information

Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they are full.

10. Health Hazard Rating

0-Insignificant	1-Slight	2-Moderate	3-High	4-Extreme
Health	1	Fire 0	Reactivity 0	Special 0

NA- Not Applicable **ND-** Not Determined

All information, recommendations and suggestions appearing herein concerning this product are based upon data obtained from manufacturer and or recognized technical sources; however, Royal Soap & Chemical Co., Inc. makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein.