

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY INFORMATION

Revision date: 1/25/2010

Product Name: LD-Z Bioenzymatic Laundry Detergent

Company information:  
Universal Companies  
18260 Oak Park Dr  
Abington VA 24210  
276-591-4000

## 2. COMPOSITION INFORMATION:

| Ingredients:                                       | CAS #      |
|--|------------|
| Water  |            |
| Sodium lauryl sulfate                              | 68585-34-2 |
| Coconut alcohol ethoxylate                         | 68131-39-5 |
| Protease, amylase,<br>cellulase and lipase enzymes |            |
| Bacillus organisms                                 |            |
| SDA-40   | 64-17-5    |
| Sodium citrate                                     | 6132-04-3  |
| Sodium oleate                                      | 143-19-1   |
| Sodium borate                                      | 133-43-4   |
| Glycerol oloenate                                  | 25496-72-4 |

Hazardous Ingredients: None

## 3. PHYSICAL DATA:

Appearance & Odor: Clear liquid, slightly sour scent .  
Specific Gravity: 1  
Boiling Point: >212<sup>0</sup>F  
Solubility in Water: miscible  
Evaporation: Similar to water  
ph: 7.5

## 4. FIRE AND EXPLOSION DATA:

Flash Point <COC> Deg.F.: >400° F  
Extinguishing Media: Water spray, CO<sub>2</sub>, dry chemical  
Special Fire Fighting Procedures: A self contained breathing apparatus is always recommended when fighting fires near chemicals.  
Unusual Fire & Explosion Hazards: None expected

## 5. HEALTH HAZARDS:

Routes of Exposure:  
Eye: May cause mild, brief irritation  
Skin: Prolonged exposure my dry skin  
Ingestion: no known hazard

Inhalation: no know hazard

Threshold Limit Value: Not established.

Effects of Overexposure: These materials are essentially non-hazardous.

Emergency First Aid Procedures: Rinse eyes with water, If skin is irritated apply a lotion and cease exposure

Is This Material Considered Carcinogenic By:

NPT? No IARC? No OSHA? No

## **6. REACTIVITY**

Stability: Stable

Conditions to Avoid: None

Incompatibility: None

Hazardous Decomposition Products:

## **7. SPILL OR LEAK PROCEDURES**

Hazardous Polymerization: Will not occur

Steps to be taken if material is spilled: Reclaim usable material where possible. Avoid sending liquids to landfills. When determining proper disposal methods, this product should be treated as edible oils. Do not allow release of this material directly into surface waters.

## **8. STORAGE AND HANDLING**

Safe Handling: No unusual requirements

Storage: Requirements for Storage Areas and Containers:

Store in a cool (15/25°C), dry location, in a sealed container. .

Precautions to be taken in handling or storage: Keep at room temperature.

## **9. EXPOSURE CONTROL/PERSONAL PROTECTION**

Eye: Safety glasses should be worn.

Skin/Body: Gloves should be worn.

Respiratory: Not needed under normal conditions of use.

Other: Evaluate need based on application. Slip proof shoes may be worn where spills may occur.

Work/Hygiene Practice: Normal work and hygiene practices for handling non-hazardous liquid material.

## **10. BIODEGRATION INFORMATION**

Ultimately 100% biodegradable

## **10 TRANSPORTATION INFORMATION**

DOT Classification: Not a DOT controlled material (USA).

Class/Division: Not restricted

Proper Shipping Name: NA

Label: None

Packing Group: NA

ID Number: NA

Hazard: NA

HMIS Scale (0-4 increasing):

Health: 0 Fire: 0 Reactivity: 0 Personal Protection:

All statements, information and data included herein are believed to be accurate and reliable but are presented without any guarantee. Users should make their own investigations to determine the suitability of this product to their own needs.