Material Safety Data Sheet

ULTRA-ZYME

Gurtler Industries, Inc.
15475 South LaSalle Street
South Holland, IL 60473
(708) 331-2550
(800) 638-7300

In Case Of Emergency (24 hours)
INFOTRAC (800) 535-5053
For Information
(708) 331-2550

SECTION 1 - IDENTIFICATION

COMPANY NAME: Gurtler Industries, Inc.
15475 South LaSalle Street
South Holland, IL 60473
PHONE NUMBER: 708-331-2550
EMERGENCY NUMBER: INFOTRAC (800) 535-5053 - 24 Hours Everyday
EFFECTIVE DATE: 8/28/01
PREPARED BY: Justin Yohn
TRADE NAME: Ultra-Zyme

SECTION 2 - INGREDIENT INFORMATION

OSHA HAZARDOUS COMPONENTS CAS REGISTRY OSHA PEL TLV HAZARDOUS %
(29CFR1910.1200) NO. (Units)
Sodium Carbonate 497-19-8 N.E. N.E.
Nonyl phenolethoxylate 9016-45-9 N.E. N.E.
Protease, Alkaline Bacillus 9073-77-2 86 mcg/m^3 N.E.
Nuisance Dust No CAS# N.E. 10 mg/m^3 – Total Dust
5 mg/m^3 – Respiratory Dust

Product is not subject to the toxic chemical reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

SECTION 3 - HEALTH HAZARD DATA

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (H.M.I.S.) HAZARD RATINGS
Hazard Rating Scale 0-None 1-Slight 2-Moderate 3-Severe 4-Severe
HMIS Health (Acute) ....................... 2 HMIS Flammability ....................... 1
HMIS Reactivity .............................. 0

EMERGENCY OVERVIEW
Appearance and Odor ....................... White/tan powder with a slight surfactant odor.
Effects of Acute Overexposure ............ Typical symptoms are respiratory irritation, breathlessness, coughing, chest tightness and difficulty breathing.

SECTION 4 - FIRST AID MEASURES

IN CASE OF EYE CONTACT: Immediately flush with water for 15 minutes, occasionally lifting upper and lower lids.
IN CASE OF SKIN CONTACT: Wash with plenty of water for 15 minutes.
IF INGESTED: Drink water to dilute. Obtain medical advice by phone.
IF INHALED: Immediately remove to fresh air.
SECTION 5 - FIREFIGHTING MEASURES

- Flash Point: 460ºF (TCC)
- Flammable Limits: N/A
- Lower Flame Limit: N/A
- Higher Flame Limit: N/A
- Extinguish Media: Water spray, dry chemical, CO2, or foam may be used in areas where this product is used or stored.
- Special Procedures: No special requirements. As a general precaution, full turnout gear and self-contained breathing apparatus should be worn in a full fire condition.
- Unusual Fire Hazards: None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- For Spill: Keep dust production to a minimum. Spray powdered spill with water to prevent dust. Collect waste in suitable container and wash exposed surfaces with water.
- Waste Disposal Method: No special disposal method required, except that it be in accordance with current local, state and federal regulations.

SECTION 7 - HANDLING AND STORAGE

- Handling & Storage: Avoid creating dust. Maintain good housekeeping practices. Exposure to high temperature or humidity may reduce product activity. Do not store near acids. Wear protective gear noted in Section 8.
- Other Precautions: As with all chemicals, keep direct contact with this product to a minimum.

SECTION 8 - PERSONAL PROTECTION

- Respiratory Protection: None normally required. Wear dust respirator if TLV levels are exceeded or discomfort is present.
- Ventilation: Local exhaust: Normally not required. Mechanic: Yes – to keep below TLV levels.
- Protective Gloves: Impermeable gloves such as rubber or polyethylene.
- Eye Protection: Chemical goggles
- Other Protective Equipment: Clothing and footwear sufficient to avoid contact.
- Work/Hygienic Practices: Safety shower and eye bath should be accessible to handling areas.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Boiling Point: N/A
- Freezing Point: N/A
- Volatility/Vol (%): N/A
- Melting Point: N.E.
- Evaporation Rate: N/A
- Vapor Density (Air=1): N/A
- Solubility in H2O: Moderate
- Specific Gravity (H2O=1): N/A

SECTION 10 - STABILITY AND REACTIVITY

- Chemical Stability: Stable
- Conditions to Avoid: High humidity or temperatures (for continued product quality)
- Incompatibility (Materials to Avoid): Strong oxidizing agents, elemental zirconium
- Decomposition Products: Unknown organic compounds
- Hazardous Polymerization: Will not occur
- Conditions to Avoid: None
### HEALTH HAZARD DATA

**Acute and Chronic Overexposure**

<table>
<thead>
<tr>
<th>Routes of Entry:</th>
<th>Sensitizer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation:</strong></td>
<td>Chronic exposure can lead to allergic sensitization based on exposure level, duration and susceptibility.</td>
</tr>
<tr>
<td><strong>Skin:</strong></td>
<td>Irritation on contact with skin.</td>
</tr>
<tr>
<td><strong>Eye:</strong></td>
<td>Corneal opacities and severe irritation.</td>
</tr>
<tr>
<td><strong>Ingestion:</strong></td>
<td>Chronic nausea, diarrhea, ataxia, tremors have been observed in animals. Chronic exposure may cause inflammation of mucous membranes of respiratory tract and of the skin.</td>
</tr>
</tbody>
</table>

**Medical Conditions Generally Aggravated by Exposure:** None known