1. IDENTIFICATION

Product Identifier
Product Name
United 893 KOVERT-A-ZYME

Other means of identification
SDS #
UNITED-893

Recommended use of the chemical and restrictions on use
Recommended Use
Wastewater Control and Degassing Agent.
Uses Advised Against
For industrial and institutional use only.

Details of the supplier of the safety data sheet
Supplier Address
United Laboratories, Inc.
320 37th Avenue
St. Charles, IL 60174
www.unitedlabsinc.com
www.unitedlabsinc.ca

Emergency Telephone Number
Company Phone Number
800-323-2594 (to reorder)
Emergency Telephone (24 hr)
INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance
Deep, red liquid
Physical State
Liquid
Odor
Strong, vanilla scent

Classification
Carcinogenicity
Category 1B
Reproductive toxicity
Category 1B

Signal Word
Danger

Hazard Statements
May cause cancer.
May damage fertility or the unborn child.

Precautionary Statements - Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention.

Precautionary Statements - Storage
Store according to local rules and regulations.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant.

Other Hazards
Harmful to aquatic life with long lasting effects.

Unknown Acute Toxicity
8.46% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrate</td>
<td>7631-99-4</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Borax</td>
<td>1303-96-4</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

"If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret."

4. FIRST-AID MEASURES

First Aid Measures

General Advice
If exposed or concerned: Get medical advice/attention.

Eye Contact
Flush with cool water for at least 15 minutes and call a physician or poison center.

Skin Contact
Wash with soap and plenty of water. If irritation persists, call a physician or poison center.

Inhalation
Remove to fresh air. If irritation persists, call a physician or poison control center.

Ingestion
Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms
May cause cancer. May damage fertility or the unborn child. May cause eye irritation. Prolonged or repeated skin contact may cause irritation. Mists of this product may irritate nasal passages. Large quantities may cause upset stomach, diarrhea, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical. Foam. Carbon dioxide (CO2). Water.

Unsuitable Extinguishing Media
Not determined

Specific Hazards Arising from the Chemical
None known.
Hazardous Combustion Products When strongly heated, as in a fire, this product may produce nitrous oxides and ammoniacal vapors.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray or mist to cool fire exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Small spills: If this material is released or spilled, flush it with water to the nearest sewer drain. This product may cause slippery conditions; rinse thoroughly. Large spills: If this material is released or spilled, flush it with water to the nearest sewer to drain. Remove with a wet vac or scrub area with scrubber of floor machine if available. This product may cause slippery conditions; rinse thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep this product in a properly labeled, tightly closed container. Do not allow this product to freeze, as the container may split or rupture. Keep out of the reach of children.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>TWA: 1 ppm</td>
<td>TWA: 1 ppm</td>
<td>IDLH: 75 ppm</td>
</tr>
<tr>
<td>7722-84-1</td>
<td>(vacated) TWA: 1.4 mg/m$^3$</td>
<td>TWA: 10 mg/m$^3$</td>
<td>TWA: 1 ppm</td>
</tr>
<tr>
<td>Borax</td>
<td>STEL: 6 mg/m$^3$ inhalable fraction</td>
<td>(vacated) TWA: 10 mg/m$^3$</td>
<td>TWA: 5 mg/m$^3$</td>
</tr>
<tr>
<td>1303-96-4</td>
<td>TWA: 2 mg/m$^3$ inhalable fraction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls Ventilation normally not required and local exhaust is usually adequate.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses are recommended when handling the concentrated product.
### Skin and Body Protection
Chemical resistant gloves are recommended for prolonged or repeated exposure to the concentrated product.

### Respiratory Protection
Normally not required.

### General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks &amp; Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Deep, red liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Deep red</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Strong, vanilla scent</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7-8</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>100 °C / 212 °F</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>1.0</td>
<td>(Water = 1)</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Liquid-Not applicable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>17.5 mmHg</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.01</td>
<td>(Water = 1)</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>100% soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>VOC Content</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

---

## 10. STABILITY AND REACTIVITY

### Reactivity
Not reactive under normal conditions.

### Chemical Stability
Stable under recommended storage conditions.

### Possibility of Hazardous Reactions
Under normal conditions of storage and use, hazardous polymerization will not occur.

### Conditions to Avoid
Excessive heat or cold. Incompatible Materials.

### Incompatible Materials
Strong oxidizing agents.

### Hazardous Decomposition Products
When strongly heated, as in a fire, this product may produce nitrous oxides and ammoniacal vapors.

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## 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure

Product Information

Eye Contact
Avoid contact with eyes.

Skin Contact
Avoid contact with skin.

Inhalation
Do not inhale.

Ingestion
Do not ingest.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrate 7631-99-4</td>
<td>= 1267 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1,2 Propanediol 57-55-6</td>
<td>= 20000 mg/kg (Rat)</td>
<td>= 20800 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Borax 1303-96-4</td>
<td>= 2660 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity
May cause cancer.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrate 7631-99-4</td>
<td></td>
<td>Group 2A</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Legend

IARC (International Agency for Research on Cancer)
Group 2A - Probably Carcinogenic to Humans
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity
May damage fertility or the unborn child.

Numerical measures of toxicity
Not determined

Unknown Acute Toxicity
8.46% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Not determined

Persistence/Degradability
Not determined

Bioaccumulation
Not determined

Mobility
Not determined
Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes  
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging  
Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrate 7631-99-4</td>
<td>Toxic Ignitable Reactive</td>
</tr>
<tr>
<td>Borax 1303-96-4</td>
<td>Toxic</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

Note  
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT  
Not regulated

IATA  
Not regulated

IMDG  
Marine Pollutant  
Not regulated  
No

15. REGULATORY INFORMATION

International Inventories

TSCA  
Listed

Legend:  
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrate - 7631-99-4</td>
<td>7631-99-4</td>
<td>&lt;1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65  
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Nitrate 7631-99-4</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1,2 Propanediol 57-55-6</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Borax 1303-96-4</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td>B</td>
</tr>
</tbody>
</table>

Issue Date: 28-Oct-2010
Revision Date: 08-Sep-2015
Revision Note: New format

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet