1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name United 84 Wastewater Plant Freeze-Dried Bacteria With Enzyme Implant

Other means of identification
SDS # UNITED-84

Recommended use of the chemical and restrictions on use
Recommended Use WWTP Freeze-Dried Bacterial With Enzyme Implant
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 Tan dry material
Physical State Solid
Odor Pleasant

OSHA/HCS status
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification
Not classified.

GHS Label Elements

Signal Word: No signal word.

Hazard Statements: No known significant or critical hazards.

Precautionary Statements
Not applicable.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>Other identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available are listed in Section 8.

4. FIRST-AID MEASURES

First Aid Measures

**Eye Contact**
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Skin Contact**
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Ingestion**
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms and effects

**Symptoms**
No known significant effects or critical hazards. No specific data on over-exposure signs and symptoms.

Indication of any immediate medical attention and special treatment needed

**Notes to Physician**
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific Treatments**
No specific treatment.

**Protection of First-Aiders**
No action shall be taken involving any personal risk or without suitable training.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable Extinguishing Media**
None known.
Specific Hazards Arising from the Chemical
No specific fire or explosion hazard.

Hazardous Thermal Decomposition Products
Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds and metal oxide/oxides.

Special Protective Actions for Fire-Fighters
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving personal risk or without suitable training.

Special Protective Equipment for Fire-Fighters
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-Piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental Precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small Spill
Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large Spill
Move containers from spill area. Prevent entry into sewers, water courses, basements or confined area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures
Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Storage Conditions and Incompatible Materials
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

Engineering Controls
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental Exposure Controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: splash goggles.

General Hygiene Considerations
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection

Hand Protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body Protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection
Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator must be used according to a respiratory protection program to ensure proper filling, training, and other important aspects of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td>Odor</td>
</tr>
<tr>
<td>Appearance</td>
<td>Tan dry material in water-soluble packet</td>
<td>Pleasant scent</td>
</tr>
<tr>
<td>Color</td>
<td>Tan</td>
<td>Odor Threshold</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Closed cup: Not applicable</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>
United 84 Wastewater Plant Freeze-Dried Bacteria With Enzyme Implant

10. STABILITY AND REACTIVITY

Reactivity
No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability
The product is stable.

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

Conditions to Avoid
No specific data.

Incompatible Materials
No specific data.

Hazardous Decomposition Products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Not available
Irritation/Corrosion: Not available
Sensitization: Not available
Mutagenicity: Not available
Carcinogenicity: Not available
Reproductive toxicity: Not available
Teratogenicity: Not available
Specific target organ toxicity (single exposure): Not available
Specific target organ toxicity (repeated exposure): Not available
Aspiration hazard: Not available
Information on the likely routes of exposure
Routes of entry anticipated: Dermal, Inhalation.
Routes of entry not anticipated: Oral.

Potential acute health effects
- Eye contact: No known significant effects or critical hazards.
- Inhalation: No known significant effects or critical hazards.
- Skin contact: No known significant effects or critical hazards.
- Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics
- Eye contact: No specific data.
- Inhalation: No specific data.
- Skin contact: No specific data.
- Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure
- Short term exposure
  - Potential immediate effects: Not available.
  - Potential delayed effects: Not available.
- Long term exposure
  - Potential immediate effects: Not available.
  - Potential delayed effects: Not available.

Potential chronic health effects
Not available
- General: No known significant effects or critical hazards.
- Carcinogenicity: No known significant effects or critical hazards.
- Mutagenicity: No known significant effects or critical hazards.
- Teratogenicity: No known significant effects or critical hazards.
- Developmental effects: No known significant effects or critical hazards.
- Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>30581 mg/kg</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Toxicity
Not available.

Persistence/Degradability
Not available.

Bioaccumulation
Not available.

Mobility in soil
- Soil/water partition coefficient (Koc): Not available

Other Adverse Effects
No known significant effects or critical hazards.
13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

**Disposal of Wastes**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Contaminated Packaging**

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

**DOT**

Not regulated.

**IATA**

Not regulated.

**IMDG**

Not regulated.

**Special precautions for user:**

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

15. REGULATORY INFORMATION

**US Federal Regulations**

TCSA 8(a) CDR Exempt/Partial exemption: Not determined. Clean Water Act (CWA) 307: tetrasodium hexacyanoferrate.

Clean Air Act

<table>
<thead>
<tr>
<th>Section</th>
<th>(b) Hazardous Air Pollutants (HAPs)</th>
<th>Listed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 112</td>
<td>Class I Substances</td>
<td>Not listed</td>
</tr>
<tr>
<td>Section 602</td>
<td>Class II Substances</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**DEA**

<table>
<thead>
<tr>
<th>List I Chemicals</th>
<th>Precursor Chemicals</th>
<th>Not listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>List II Chemicals</td>
<td>Essential Chemicals</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**US State Regulations**

<table>
<thead>
<tr>
<th>Massachusetts</th>
<th>New York</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the components listed.</td>
<td>None of the components listed.</td>
<td>None of the components listed.</td>
<td>None of the components listed.</td>
</tr>
</tbody>
</table>

**SARA 302/304**

Composition/information on ingredients

No products were found.

**SARA 304 RQ:** Not applicable.
SARA 311/312
Classification: Not applicable
Composition/information on ingredients
No products were found.

International Regulations

<table>
<thead>
<tr>
<th>Chemicals</th>
<th>Not listed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemicals</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Chemicals</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Chemicals</td>
<td>Not listed.</td>
</tr>
</tbody>
</table>

International Lists

National Inventory

<table>
<thead>
<tr>
<th>Country</th>
<th>Not determined.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Canada</td>
<td>Not determined.</td>
</tr>
<tr>
<td>China</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Europe</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Japan</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Not determined.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Philippines</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Not determined.</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>2</td>
<td>0</td>
<td>0</td>
<td>0</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>0</td>
<td>B</td>
</tr>
</tbody>
</table>

Issue Date: 16-Jun-2015
Revision Date: 13-Apr-2018
Revision Note: Revised

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