1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name United 313 Earth Smart® Cooling Tower Biodispersant

Other means of identification
SDS # UNITED-313

Recommended use of the chemical and restrictions on use
Recommended Use Earth Smart Cooling Tower Biodispersant
Used Advised Against For industrial or 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 Green liquid Physical State Liquid Odor Slight Odor

Classification

Signal Word Warning

Hazard Statements
Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation.

Precautionary Statements - Prevention
Keep out of reach of children. Keep container tightly closed. Do not get in eyes, on skin or on clothing.

Precautionary Statements - Response
Wash thoroughly after handling. Use personal protective equipment as required.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylamide of a fatty acid tallow oil (proprietary blend)</td>
<td>Proprietary</td>
<td>15-30</td>
</tr>
<tr>
<td>Proprietary aliphatic amide hydrolysates</td>
<td>Proprietary</td>
<td>10-30</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

**Eye Contact**
Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid, get appropriate in-plant, paramedic or community medical support.

**Skin Contact**
Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. See medical attention if any irritation persists.

**Inhalation**
Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Call a physician if any difficulties persist.

**Ingestion**
If person can swallow, give 2 glasses of water to drink. DO NOT INDUCE VOMITING! After first aid, seek appropriate in-plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

**Symptoms**
May be harmful if swallowed. Causes serious eye irritation. Causes mild skin irritation.

Indication of any immediate medical attention and special treatment needed

**Notes to Physician**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water fog, dry chemical, carbon dioxide, alcohol foam.

**Unsuitable Extinguishing Media**
Not determined.

**Specific Hazards Arising from the Chemical**
None known other than material can splatter above 100°C/212°F.

**Hazardous Combustion Products**
Unknown but carbon monoxide may be released on burning.

Protective equipment and precautions for firefighters
Do not release runoff from fire control methods to sewers or waterways. Because fire may product toxic thermal decomposition products, wear self-contained breathing apparatus pressure-demand, with full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal Precautions

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for Containment and clean-up

Prevent further leakage or spillage if safe to do so.

Small spills: Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water. Large spills: Dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard. Accumulate the absorbed materials and dispose of according to federal, state, and local regulations.

Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that may apply.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes. Do not store product above 77°F. Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products.

Incompatible Materials

Strong acids, strong alkalis, and strong oxidizers or any other type of reactive material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Not determined.

Appropriate engineering controls

Engineering Controls

Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Section 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Individual protection measures, such as personal protective equipment

Eye/Face Protection & Skin/Body Protection

Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of; or in conjunction with contact lenses. At a minimum wear safety glasses with side shields as well as chemically protective gloves and aprons to prevent prolonged or repeated skin contact.
Respiratory Protection
Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Safety Stations and Contaminated Equipment
Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Consistent use of afore-mentioned personal protective equipment is essential in preventing injuries or irritation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Green color liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>5-8</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Approximately 32°F</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>212°F +/-</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Non Flammable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Same as water</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Same as water</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.00 +/-</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Complete</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 temperature, contact with any type of reactive chemicals.

Incompatible Materials
Avoid contact with strong acids, strong alkalis, oxidizers or any other type of reactive material.

Hazardous Decomposition Products
There are no known hazardous decomposition products for this material unless the material is burned in which an undetermined evolution of toxic gases may occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact  Irritation to eyes and possible burning if materials are not immediately rinsed from the eye.

Skin Contact  Irritation to skin.

Inhalation  Might produce irritation to respiratory system.

Ingestion  Not tested for this blend. Harmful if swallowed.

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>Dimethylamide of a fatty acid tallow oil (proprietary blend)</td>
<td>&gt;5000 mg/kg (Rat)</td>
<td>&gt;2000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary aliphatic amide hydrolysates</td>
<td>1200 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
Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Mutagenicity
No mutagenic effects are known to be applicable for the formulation components of this product.

Chronic Effects
No specific studies have been conducted for this specific blend.

Numerical measures of toxicity
Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Not determined
### 13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Waste Treatment Methods</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disposal of Wastes</strong></td>
<td>Disposal should be in accordance with applicable regional, national and local laws and regulations. Triple rinse the empty containers with water before disposal to reconditioned or landfill or garbage.</td>
</tr>
<tr>
<td><strong>Contaminated Packaging</strong></td>
<td>Disposal should be in accordance with applicable regional, national and local laws and regulations.</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

Note: Transportation information provided is reference only. Client is urged to consult CFR 49, Parts 100-177, IMDG, IATA, EU, United Nations, TDG and WHMIS TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DOT</strong></td>
<td>Not regulated.</td>
</tr>
<tr>
<td><strong>IATA</strong></td>
<td>Not regulated.</td>
</tr>
<tr>
<td><strong>IMDG</strong></td>
<td>Not regulated.</td>
</tr>
<tr>
<td><strong>Marine Pollutant</strong></td>
<td>No.</td>
</tr>
</tbody>
</table>

### 15. REGULATORY INFORMATION

**International Inventories**

- **RCRA Hazardous Waste Number:** Product blend is not listed (40 CFR 261.33).
- **RCRA Hazardous Waste Classification:** Product blend is not classified.
- **TSCA:** Listed.

**US Federal Regulations**
CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). Product blend is unlisted specific per RCRA, Section 3001; CWA, Section 311 (b) (4); CWA, Sec. 307 (a).

CAA, Section 112 CERLA Reportable Quantity
Not listed.

SARA 313
This product is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40 CFR 372 and 40 CFR 355. Not listed.

SARA 302/304 Extremely Hazardous Substance-40 CFR 355
Not listed.

Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A)
Not listed.

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
This product does not contain any substances regulated under applicable state right-to-know regulations.

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></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>c</td>
</tr>
</tbody>
</table>

Issue Date: 05-Apr-2010
Revision Date: 01-Mar-2016
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 a 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