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Version 2

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** United 266 EARTH SMART® Chiller Coil Cleaner

**Other means of identification**

**SDS #** UNITED-266

**Recommended use of the chemical and restrictions on use**

**Recommended Use** EARTH SMART® Chiller Coil Cleaner.  
**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** Amber, yellow liquid

**Physical State** Liquid

**Odor** Sunshine fragrance

**Classification**

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 1 |
| Serious eye damage/eye irritation | Category 1 |
| Carcinogenicity                   | Category 2 |

**Signal Word**

**Danger**

**Hazard Statements**

Causes severe skin burns and eye damage. Suspected of causing cancer.



**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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling.

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Unknown Acute Toxicity**

8.8% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name              | CAS No    | Weight-% |
|----------------------------|-----------|----------|
| D-Sodium Silicate Solution | 1344-09-8 | 1-10     |

\*\*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**

|                       |                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b> | Immediately call a poison center or doctor/physician.                                                                                                                                                             |
| <b>Eye Contact</b>    | Immediately flush with plenty of water for at least 15 minutes while holding eyelids open. Immediately call a poison center or doctor/physician.                                                                  |
| <b>Skin Contact</b>   | Wash with soap and plenty of water. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If irritation persists, seek medical attention. |
| <b>Inhalation</b>     | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. If not breathing, give artificial respiration.                         |
| <b>Ingestion</b>      | Rinse mouth. Do not induce vomiting. If conscious, give cold water to dilute the product. Never give anything by mouth to a person who is unconscious or convulsing. Seek medical attention immediately.          |

**Most important symptoms and effects**

|                 |                                                                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b> | Causes severe skin burns and eye damage. Mists of the product may be irritating to the respiratory tract. Can cause irritation to mouth, esophagus and stomach. |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

In the presence of extreme heat, as in a fire, this product may react with active metals (e.g. aluminum, zinc, etc.) to release flammable hydrogen gas.

### Hazardous Combustion Products

When strongly heated, as in a fire, this product may produce carbon monoxide, carbon dioxide and other unidentified organic compounds.

### 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.

**Environmental Precautions** See Section 12 for additional Ecological Information.

### 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: Small spills may be flushed with large quantities of water to sewer drain if permitted. This product may cause slippery conditions; Rinse thoroughly. Large spills: Dike large spill and collect on suitable absorbent. Place in a salvage drum for disposal. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Avoid contact with skin and eyes. Use with adequate ventilation.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store locked up. Keep this product in a properly labeled, tightly closed container. Store in a cool, dry well-ventilated area. Store away from incompatible materials. Do not allow this product to freeze, as the product may require mixing and containers may split or rupture.

**Incompatible Materials** Acids. Ammonium salt solutions. Strong oxidizing agents such as bleach.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

| Chemical Name                  | ACGIH TLV                  | OSHA PEL                                                                                                 | NIOSH IDLH                                               |
|--------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Hydrogen Peroxide<br>7722-84-1 | TWA: 1 ppm                 | TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup><br>(vacated) TWA: 1 ppm<br>(vacated) TWA: 1.4 mg/m <sup>3</sup> | IDLH: 75 ppm<br>TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup> |
| Formic acid<br>64-18-6         | STEL: 10 ppm<br>TWA: 5 ppm | TWA: 5 ppm<br>TWA: 9 mg/m <sup>3</sup><br>(vacated) TWA: 5 ppm<br>(vacated) TWA: 9 mg/m <sup>3</sup>     | IDLH: 30 ppm<br>TWA: 5 ppm<br>TWA: 9 mg/m <sup>3</sup>   |

**Appropriate engineering controls**

**Engineering Controls** Normally not required. Mechanical ventilation recommended when handling in enclosed, tight spaces.

**Individual protection measures, such as personal protective equipment**

- Eye/Face Protection** Safety glasses recommended.
- Skin and Body Protection** Chemical resistant gloves recommended.
- Respiratory Protection** Normally not required. Avoid breathing mists or vapors.

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical State** Liquid  
**Appearance** Amber, yellow liquid  
**Color** Amber yellow  
**Odor** Sunshine fragrance

| <u>Property</u>                     | <u>Values</u>             | <u>Remarks • Method</u> |
|-------------------------------------|---------------------------|-------------------------|
| <b>pH</b>                           | 11.5-12                   |                         |
| <b>Melting Point/Freezing Point</b> | No information available. |                         |
| <b>Boiling Point/Boiling Range</b>  | No information available. |                         |
| <b>Flash Point</b>                  | 95.6 °C / 204 °F          |                         |
| <b>Evaporation Rate</b>             | 1                         | TCC<br>(Water = 1)      |
| <b>Flammability (Solid, Gas)</b>    | Liquid-Not applicable     |                         |
| <b>Upper Flammability Limits</b>    | No information available. |                         |
| <b>Lower Flammability Limit</b>     | No information available. |                         |
| <b>Vapor Pressure</b>               | No information available. |                         |
| <b>Vapor Density</b>                | No information available. |                         |
| <b>Specific Gravity</b>             | 1.040                     | (Water = 1)             |
| <b>Water Solubility</b>             | Completely soluble.       |                         |
| <b>Solubility in other solvents</b> | No information available. |                         |
| <b>Partition Coefficient</b>        | No information available. |                         |
| <b>Auto-ignition Temperature</b>    | No information available. |                         |
| <b>Decomposition Temperature</b>    | No information available. |                         |
| <b>Kinematic Viscosity</b>          | No information available. |                         |
| <b>Dynamic Viscosity</b>            | No information available. |                         |
| <b>Explosive Properties</b>         | No information available. |                         |
| <b>Oxidizing Properties</b>         | No information available. |                         |
| <b>VOC Content</b>                  | None.                     |                         |

## 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

Extreme heat. Keep from freezing. Incompatible Materials.

### Incompatible Materials

Acids. Ammonium salt solutions. Strong oxidizing agents such as bleach.

### Hazardous Decomposition Products

When strongly heated, as in a fire, this product may produce carbon monoxide, carbon dioxide and other unidentified organic compounds.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | Causes severe eye damage. Short-term contact may cause irritation. Prolonged contact may cause burns and destruction of tissue. |
| <b>Skin Contact</b> | Causes severe skin burns. May cause irritation and burns upon prolonged contact.                                                |
| <b>Inhalation</b>   | Do not inhale. Mists of the product may be irritating to the respiratory tract.                                                 |
| <b>Ingestion</b>    | Do not ingest.                                                                                                                  |

### Component Information

| Chemical Name                           | Oral LD50            | Dermal LD50             | Inhalation LC50                  |
|-----------------------------------------|----------------------|-------------------------|----------------------------------|
| D-Sodium Silicate Solution<br>1344-09-8 | = 1153 mg/kg ( Rat ) | > 4640 mg/kg ( Rabbit ) | -                                |
| Tetrasodium EDTA<br>64-02-8             | = 10 g/kg ( Rat )    | -                       | -                                |
| Nitilotriacetic acid<br>139-13-9        | = 1100 mg/kg ( Rat ) | -                       | -                                |
| 1,2-Benzisothiazolin-3-one<br>2634-33-5 | = 1020 mg/kg ( Rat ) | -                       | -                                |
| Hydrogen Peroxide<br>7722-84-1          | = 801 mg/kg ( Rat )  | = 2000 mg/kg ( Rabbit ) | = 2 g/m <sup>3</sup> ( Rat ) 4 h |
| Formic acid<br>64-18-6                  | = 730 mg/kg ( Rat )  | -                       | -                                |

### 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** Suspected of causing cancer.

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)  
 A3 - Animal Carcinogen  
 IARC (International Agency for Research on Cancer)  
 Group 2B - Possibly Carcinogenic to Humans  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present

**Numerical measures of toxicity**

Not determined

**Unknown Acute Toxicity** 8.8% of the mixture consists of ingredient(s) of unknown toxicity.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

No information available.

**Persistence/Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other Adverse Effects**

No information available.

**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.

**US EPA Waste Number**

| Chemical Name          | RCRA | RCRA - Basis for Listing                 | RCRA - D Series Wastes | RCRA - U Series Wastes |
|------------------------|------|------------------------------------------|------------------------|------------------------|
| Formic acid<br>64-18-6 | U123 | Included in waste streams:<br>K009, K010 |                        | U123                   |

**14. TRANSPORT INFORMATION**

**DOT** Not regulated.

**IATA** Not regulated.

**IMDG** Not regulated.

## 15. REGULATORY INFORMATION

### International Inventories

**TSCA** Listed

#### Legend:

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

### US Federal Regulations

#### SARA 313

| Chemical Name                    | CAS No   | Weight-% | SARA 313 - Threshold Values % |
|----------------------------------|----------|----------|-------------------------------|
| Nitrioltriacetic acid - 139-13-9 | 139-13-9 | <1       | 0.1                           |
| Formic acid - 64-18-6            | 64-18-6  | <1       | 1.0                           |

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical Name                    | California Proposition 65 |
|----------------------------------|---------------------------|
| Nitrioltriacetic acid - 139-13-9 | Carcinogen                |

#### U.S. State Right-to-Know Regulations

| Chemical Name                           | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------------------|------------|---------------|--------------|
| Nitrioltriacetic acid<br>139-13-9       | X          | X             | X            |
| Hydrogen Peroxide<br>7722-84-1          | X          | X             | X            |
| Formic acid<br>64-18-6                  | X          | X             | X            |
| Lithium Hydroxide Solution<br>1310-66-3 | X          |               |              |

## 16. OTHER INFORMATION

#### NFPA

#### Health Hazards

No information available

#### Flammability

No information available

#### Instability

No information available

#### Special Hazards

No information available

#### HMIS

#### Health Hazards

1

#### Flammability

0

#### Physical Hazards

0

#### Personal Protection

B

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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**