

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

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
Eye damage/eye irritation	Category 1

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.



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**

General Advice	Immediately call a poison center or doctor/physician.
Eye Contact	Immediately flush with plenty of water for at least 15 minutes while holding eyelids open. Immediately call a poison center or doctor/physician.
Skin Contact	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.
Inhalation	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.
Ingestion	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

Symptoms	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.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray (fog). Carbon dioxide (CO2). 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, at 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 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³ (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m ³	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³

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>
pH	11.5-12	
Melting Point/Freezing Point	No information available.	
Boiling Point/Boiling Range	No information available.	
Flash Point	95.6 °C / 204 °F	TCC
Evaporation Rate	1	(Water = 1)
Flammability (Solid, Gas)	Liquid-Not applicable	
Upper Flammability Limits	No information available.	
Lower Flammability Limit	No information available.	
Vapor Pressure	No information available.	
Vapor Density	No information available.	
Specific Gravity	1.040	(Water = 1)
Water Solubility	Completely soluble.	
Solubility in other solvents	No information available.	
Partition Coefficient	No information available.	
Auto-ignition Temperature	No information available.	
Decomposition Temperature	No information available.	
Kinematic Viscosity	No information available.	
Dynamic Viscosity	No information available.	
Explosive Properties	No information available.	
Oxidizing Properties	No information available.	
VOC Content	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

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

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
D-Sodium Silicate Solution 1344-09-8	= 1153 mg/kg (Rat)	> 4640 mg/kg (Rabbit)	-
Ethylenediaminetetraacetic acid tetrasodium salt 64-02-8	= 10 g/kg (Rat)	-	-
1,2-Benzisothiazolin-3-one 2634-33-5	= 1020 mg/kg (Rat)	-	-
Hydrogen Peroxide 7722-84-1	= 801 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 2 g/m ³ (Rat) 4 h

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 No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, OSHA and ACGIH.

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.

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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

US State Regulations

California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrogen Peroxide 7722-84-1	X	X	X
Lithium Hydroxide Solution 1310-66-3	X		

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards No information available	Flammability No information available	Instability No information available	Special Hazards No information available
<u>HMIS</u>	Health Hazards 1	Flammability 0	Physical Hazards 0	Personal Protection B

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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