COOLING TOWER

Safety Data Sheet

Issue Date: 10-Aug-2015 **Revision Date:** 20-Jul-2022 **Version 2**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name United 314 Earth Smart® Cooling Tower Concentrate

Other means of identification
SDS # UNITED-314

Recommended use of the chemical and restrictions on use
Recommended Use Earth Smart® Cooling Tower Concentrate
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 **Physical State** Liquid **Odor** Slight odor

Classification

Acute Toxicity- oral	Category 4
Eye damage/irritation	Category 2A
Skin Corrosion/irritation	Category 2B

Signal Word
Warning



Hazard Statements
Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause long-lasting harmful effects to aquatic life.

Precautionary Statements
Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Keep out of reach of children.

Response
If swallowed call a poison control center, if you feel unwell. Rinse mouth. Do not induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center if you feel unwell. Take off contaminated clothing and wash before reuse. Get medical advice.

Disposal
Dispose of contents/container according to all local, state, and federal guidelines.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS Number	% by Wt.
Sodium Hydroxide 50%	1310-73-2	10-15
Polymaleic Acid	26099-09-2	5-10
L-Aspartic acid, sodium salt	34345-47-6	5-10
Non-Hazardous Ingredient	-	65-85

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 Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center. Causes eye irritation.

Skin Contact Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center if irritation develops or persists. Wash contaminated clothing before reuse. Causes skin irritation.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if any difficulties persist. May cause respiratory irritation.

Ingestion Rinse mouth. Do not induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person. May cause gastrointestinal irritation.

Most important symptoms /effects acute and delayed The most important known symptoms and effects are described in the labeling. See Section 11.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water spray, alcohol-resistant foam, carbon dioxide, dry chemical.

Unusual Fire or Explosion Hazards
None known other than the material can splatter above 100°C/212°F.

Special protective actions for firefighters
Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained

breathing apparatus. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal Precautions Wear respiratory protection if necessary. Avoid breathing gas, mist, vapors, or spray. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8.

Environmental Precautions Do not let the product enter drains.

Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Do not swallow. Avoid breathing mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. See Section 8.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store away from incompatible materials. Keep away from children.

Regulatory Requirements Store materials according to all local, state and federal guidelines.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Hazardous Components	CAS Number	OSHA PEL/TWA STEL	ACGIH TLV/TWA STEL
Sodium Hydroxide	1310-73-2	2 mg/m3	2 mg/m3
Polymaleic Acid	26099-09-2	None established	None established
L-Aspartic acid, sodium salt	None established	None established	None established

Appropriate engineering controls

Engineering Controls/Ventilation Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Respiratory Protection

Personal Protective Equipment Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with a multipurpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards	No information available.
Eye/face protection	Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Ensure that eyewash stations and/or safety showers are close to the workstation location if working with the concentrated product.
Skin protection	Wear protective gloves. Consult manufacturer specifications for further information.
Body protection	Wear protective clothing. Clothing with full-length sleeves and pants should be worn. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Green Liquid
Color	Green
Odor	Slight Odor

Property	Values	Remarks • Method
pH	10-12	
Water Solubility	Complete	
Boiling Point	212°F +/-	
Vapor Pressure	Same as water	
Vapor Density	Same as water	
Evaporation Rate	1.00	
Melting/freeze Point	Approx. 32°F +/-	
Decomposition Temp	Not determined	
Flammability	Non-flammable	
Flash Point	Not available	
Auto Ignition Temp	Not available	
LEL	Not determined	
UEL	Not determined	

10. STABILITY AND REACTIVITY

Stability
Contact with incompatible materials. Sources of ignition. Exposure to heat.

Conditions to Avoid
Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

Possibility of Hazardous Reactions
No information available.

Incompatibilities materials
Sodium hydroxide: Caustic soda reacts with the mineral acids to form the corresponding salts. It also reacts with weak-acid gases, such as hydrogen sulfide, sulfur dioxide, and carbon dioxide. Caustic soda reacts with amphoteric metals (Al, Zn, Sn) and their oxides to form complex anions such as Al02(-)Zn02(-2),SNO2(-2), and H2 or H20 with oxides. All organic acids also react with sodium hydroxide to form soluble salts. Another common reaction of caustic soda is: acids, strong oxidizing agents.

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Routes of Entry	Absorbed through the skin, dermal contact, eye contact, inhalation
Eye Effects	Causes serious eye irritation. Symptoms may include a cloudy appearance of the cornea, chemical burns, severe pain, and tearing.
Skin Effects	Causes skin irritation. Symptoms may include localized redness, swelling, itching, intense pain, and blistering.
Acute Oral/Ingestion Effects	May cause gastrointestinal irritation. Symptoms may include abdominal pain, stomach upset, nausea, vomiting, and diarrhea.
Respiratory Effects	No information available.
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, NTP, ACGIH or EPA classification. OSHA do not list this product or its components as a carcinogen.
Mutagenicity	No information available.
Reproductive toxicity	No information available.
STOT-repeated/single exposure	No information available.
Aspiration hazard	No information available

Component Information

Hazardous Components	LC50 Inhalation	LD50 Oral	LD50 Dermal
L-Aspartic acid, homopolymer, sodium salt 343345-47-6	>5.1 mg/l 4hr (Rat)	5000 mg (Rat)	50 mg 24 hours (Rabbit)
Sodium Hydroxide 1310-73-2	LD50 Eyes 50mg 24hr (Rabbit)	500 mg/kg (Oral) (Rabbit)	500 mg/ 24 hour (Rabbit)
Polymaleic Acid 26099-09-2	6.5 mg/kg 1/6hr (Rat)	15000 mg/kg (Oral) (Rat)	>5010 mg/kg (Rabbit)

12. ECOLOGICAL INFORMATION

Toxicity
No information is available.

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.

Mobility in soil
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations. Dispose of unused product.
Container Cleaning and Disposal	Triple rinse the empty containers with water before disposal to reconditioned or landfill or garbage.
Waste treatment	Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations. This product should not be allowed to enter drains, water courses, or the soil.

14. TRANSPORT INFORMATION

Proper Shipping Name	**Non Regulated Materials**			
Hazard Class – 8NA	Marine Pollutant:	UN Number:	Packing Group:	ERC Number:
Reportable Quantity	No Sodium Hydroxide 1000 lb.	NA	NA	NA

15. REGULATORY INFORMATION

TSCA	All listed.
CERCLA Hazardous Substance (40 CFR 302.4)	This material, as supplied, contains one or more substances regulated as a hazardous substance under the CERCLA (40CFR302) RX: 1000lb, Sodium Hydroxide.
SARA 311/312 Hazards	Chronic Health Hazard
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
Sara 302/304 Extremely Hazardous Substance (40CFR 355)	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
Threshold Planning Quantity (TPQ)	Not listed
US State Right to Know	MA/NJ/PA Chemical: Sodium Hydroxide 1310-73-2
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS	**Health Hazards**	**Flammability**	**Reactivity**	**Personal Protection**
	1	0	0	C
NFPA	1	0	0	W

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Revision Note: Regulatory revisions

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of ties 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 vali for such material used in combination with any other materials to in any process unless specified in the test.

End of Safety Data Sheet