COOLING TOWER

Safety Data Sheet

Issue Date 09-May-2022 **Revision Date** 10-Apr-2024 **Version** 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name United 308 Earth Smart Closed Loop Treatment

Other means of identification
SDS# UNITED 308

Recommended use of the chemical And restrictions on use
Recommended use Closed Loop Water Treatment.
Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet
Company Name
United Laboratories, Inc.
320 37th Avenue
St. Charles, IL 60174
www.unitedlabsinc.com

Emergency telephone number
Emergency Telephone 800-323-2594 (to reorder)
INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Greenish brown Liquid **Physical State** Liquid **Odor** Characteristic Odor

Acute toxicity - oral	Category 5
Eye damage/irritation	Category 2A
Skin corrosion/irritation	Category 2B

Signal Word
Warning

Label elements



Hazard statements
Harmful if swallowed. Causes serious eye damage. Causes severe skin burns. May cause respiratory irritation.

Precautionary statement
Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin or on clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to so. Continue rinsing. If eye irritation persists: Get medical attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If swallowed: call a poison center/doctor if you feel unwell. Rinse mouth. Do not induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing.

Storage
Store away from incompatible materials. Keep out of reach of children.

Disposal
Dispose of contents/container in accordance with local/regional regulations.

Hazard(s) not otherwise classified (HNOC)
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	% by Weight
Sodium Hydroxide	1310-73-2	0-5
Hydroxy Phosphonoacetic Acid	23783-26-8	0-5
Non-Hazardous Ingredient	-	85-95

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

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

Eye contact Rinse cautiously with water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

Inhalation Remove to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

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

Most important symptoms/effects, acute and delayed Acute and delayed symptoms: Skin: Causes skin irritation, localized redness, swelling, itching. Eye: Causes serious eye irritation. Cloudy appearance of the cornea, chemical burns, severe pain, tearing. Ingestion: May cause gastrointestinal irritation. Abdominal pain, stomach upset, nausea, vomiting and diarrhea. Inhaled: May cause respiratory irritation, burning pain in the nose and throat, coughing.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide.

Unsuitable extinguishing media None known.

Protective equipment and precautions for firefighters

Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may product irritation, 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.

Special fire hazards arising from chemical

None known other than material can splatter above 100°/212°F.

General

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions — Keep unnecessary personnel away and evacuate personnel to safe areas. Wear respiratory protection if necessary. Avoid breathing gas, mist vapors, or spray. Ensure adequate ventilation. For personal protection, see Section 8 of the SDS.

Environmental precautions

Environmental precautions — Do not let protect enter drains.

Methods and material for containment and cleaning up

Methods for containment and clean up — Stop leak if you can do it without risk. Sweep up and shovel into suitable containers for disposal. See Section 13 of this SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling — Fully review all data before handling of the material itself. Do not swallow. Avoid breathing mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use in a well-ventilated area. See Section 8 for certain PPE.

Conditions for safe storage, including any incompatibilities

Storage Conditions — Store away from incompatible materials. See Section 10 for information on incompatible materials. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines — Biological limit values

Chemical Name	OSHA	ACGIH	NIOSH
Sodium Hydroxide 1310-73-2	PEL/TWA: 2mg/m^3	TWA: 2 mg/m^3	REL: 2 mg/m^3
Hydroxy Phosphonoacetic Acid 23783-26-8	None Established	None Established	-

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls — 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

Eye/face protection	Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection	Wear protective gloves. Consult manufacturer specifications for further information. 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 as the specific workplace.
Respiratory protection	When risk assessment shows air-purifying respirators are appropriate use a full-face respirator with 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).
Environmental exposure controls	Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Color	Greenish brown Liquid
Odor	Characteristic Odor

Property	Values	Remarks • Method
pH	12+/-	
Specific Gravity	No information available.	
Viscosity	No Information available.	
Melting point/freezing point	32°F+/-	
Flash point	No information available.	
Boiling point and Boiling range	212°F +/-	
Evaporation rate	1.00	
Flammability (solid, gas)	Non-flammable.	
Upper flammability limit:	No information available.	
Lower flammability limit:	No information available.	
Vapor pressure	No information available.	
Vapor density	No information available.	
Water solubility	Completely soluble in water.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition temperature	No information available.	
Viscosity	No information available.	
VOC	None.	

10. STABILITY AND REACTIVITY

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

Chemical stability
This product is stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions
No information available.

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

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

Sodium Hydroxide 50%: Caustic soda reacts with all 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 A102(-), Zn02(-2), SN02(-2), and H2 (or H20 with oxides) All organic acids also reacts with sodium hydroxide to form soluble salts. Another common reaction of caustic soda is dehydrochlorination.

Hazardous Decomposition Products
No information available. In the event of fire: See Section 5. Sodium Hydroxide: Sodium oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Eyes, Ingestion, Inhalation and Skin.

Product Information

Inhalation May cause respiratory irritation. May include burning pain in the nose and throat, coughing.

Eye contact Causes serious eye irritation. May include cloudy appearance of the cornea, chemical burns, severe pain, tearing.

Skin Contact May cause irritation to skin. May include localized redness, swelling and itching.

Ingestion May cause gastrointestinal irritation. May include abdominal pain, stomach upset, nausea.

Chemical	Dermal LD_{50}	Inhalation LC_{50}	Oral LD_{50}
Sodium Hydroxide 1310-73-2	500 mg/kg (24hr) (Rabbit) 50 mg (24hr) Eyes (Rabbit)	-	500mg/kg (Rabbit)
Hydroxy Phosphonoacetic Acid 23783-26-8	-	-	2754mg/kg (Rat)

Skin irritation Causes skin irritation. Symptoms may include localized redness, swelling and itching.
Eye damage/eye irritation Causes serious eye irritation. Sign/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing.
Respiratory Sensitization May cause irritation. Signs/symptoms may include burning pain in the nose and throat, coughing. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogenicity This product is not considered to be a carcinogen by IARC, OSHA, ACGIH and NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen by OSHA.
Aspiration hazard No information available.
Reproductive toxicity No information available.
STOT/single exposure No information available specific target organ toxicity – single exposure.
STOT/repeated exposure No information available specific target organ toxicity – repeated exposure.
Chronic effects No specific studies have been conducted for this specific blend. No other information for chronic effect to humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Soil Mobility
No information available.

Other adverse effects
No other adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Dispose should be in accordance with federal, regional, national and local laws and regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations. Local regulations may be more stringent than state or federal requirements.
Waste from residues/unused Products	Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations. Avoid runoff into storm sewers and ditches which lead to waterways.

14. TRANSPORT INFORMATION

DOT
Not Regulated.
Reportable Quantity: (RQ) 1,000 lb. Sodium Hydroxide

IATA
Not Regulated.

IMDG
Not Regulated.

Environmental Class **Marine Pollutant**	No
Poison Inhalation Hazard	No

15. REGULATORY INFORMATION

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory-Listed.

US Federal Regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910, 1200.

SARA 302/304 Extremely Hazardous Substance / Emergency Release Notification
None listed to report requirements of SARA Title III, Section 302.

SARA 311/312 hazard categories
Chronic health hazards.

SARA 313 (TRI reporting)
This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

CERCLA
This material, as supplied, does contain a substance regulated as a 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). Sodium Hydroxide (1310-73-2).

Right-to-Know Act
Sodium Hydroxide (1310-73-2) New Jersey/Massachusetts/Pennsylvania.

California Proposition 65
This product does not contain a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

HMIS	**Health hazards** 1	**Flammability** 0	**Reactivity** 0	**Personal protection** C
NFPA	**Health hazards** 1	**Flammability** 0	**Reactivity** 0	**Personal protection** W

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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