



MATERIAL SAFETY DATA SHEET

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To Reorder Call:
 800-323-2594

1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES
 24 Hour INFOTRAC (US and CANADA): **800-535-5053**

PRODUCT NAME
 UNITED 416 COOLING TOWER CONCENTRATE

USE/DESCRIPTION
 Extra Strength Cooling Tower Concentrate

REVISION DATE
 July 18, 2011

HMIS III HEALTH (0 = Maximum Safety) **2**

Always follow Label Directions and Cautions.

* Chronic 2 Moderate
 4 Severe 1 Slight
 3 Serious 0 Minimal
See Hazards Identification Section of this MSDS for more detailed information.

PHYSICAL HAZARD (0 = Maximum Safety) **0**

Susceptible to Release of Energy.

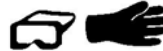
4 May detonate-vacate area if materials are exposed to fire. 2 Violent chemical change possible-use hose stream from distance
 3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers. 1 Unstable if heated-use precaution.
0 Normally stable.

FLAMMABILITY (0 = Maximum Safety) **0**

Susceptibility of Material to Burning.

4 Extremely flammable. 1 Must be preheated to burn.
 3 Ignites at normal temperature. 0 Will not burn.
 2 Ignites when moderately heated.

PERSONAL PROTECTION: n & p



2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Potassium hydroxide	1310-58-3	5-10	C: 2mg/m3	C: 2 mg/m3	365 mg/kg (rat/oral)	NE

3. HAZARDS IDENTIFICATION

Eyes: May cause severe irritation, possibly corrosive to eye tissues. Tearing, redness, pain, and impaired vision are symptoms.

Skin: May cause irritation, possibly corrosive if contact is prolonged.

Inhalation: Vapors may cause irritation to the nose, throat and respiratory tract producing symptoms of nausea in poorly ventilated areas.

Ingestion: May be harmful. May cause alkaline burns to mouth and throat.

4. FIRST AID MEASURES

Eyes: Flush with cool water for at least 15 minutes and call a physician or poison center.

Skin: Wash with soap and water. If irritation persists, call a physician or poison center.

Inhalation: Remove victim to fresh air. If irritation persists, call a physician or poison center.

Ingestion: DO NOT induce vomiting. Dilute by drinking several glasses of water. Never give anything by mouth to an unconscious victim. Call a physician or poison center immediately.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): None

Explosive Limits: Lower (LEL): NA Upper (UEL): NA

Flame Projection (Aerosol): NA

Hazardous Products of Combustion: When strongly heated, as in a fire, this product may produce carbon monoxide, carbon dioxide, nitrogen oxides and oxides of phosphorous.

Fire and Explosion Hazards: None known.

Extinguishing Media: Water, Foam, Carbon dioxide or Dry chemical.

Fire Fighting Instructions: Wear self-contained breathing apparatus w/full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Spills should be collected to prevent contamination of waterways. Dike spill and recover quickly into suitable containers. Flush residual with large amounts of water.

Large Spills: Spills should be collected to prevent contamination of waterways. Dike spill and recover quickly into suitable containers. Flush residual with large amounts of water.

7. HANDLING AND STORAGE

Keep this product in a properly labeled, tightly closed container. Do not allow this product to freeze, as containers may split or rupture. Remove contaminated clothing and wash thoroughly with soap and water before reusing. Wash hands and face with soap and water after using this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety goggles are recommended.

Skin: Chemical resistant gloves are recommended.

Respiratory: Use with adequate ventilation and avoid breathing vapors.

Engineering Controls: Mechanical ventilation not normally required and local exhaust is generally adequate.

Other Protective Clothing: Long shirt sleeves are suggested.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: ~212°F/~100°C **Specific Gravity:** 1.16 (H₂O=1) **Vapor Pressure:** ND **Melting Point:** ND
Vapor Density: ND **Evaporation Rate:** ~1 **Solubility in Water:** Complete **pH:** 11.5 – 13
Appearance and Odor: Brown liquid with sharp, acrid odor.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: Thermal decomposition may release carbon dioxide, carbon monoxide, nitrogen oxides and oxides of phosphorous.

Chemical Stability: Stable

Incompatibility: Acids and strong oxidizers.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None

California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Consult your local, state and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

14. TRANSPORT INFORMATION

DOT: Available upon request

TDG: Available upon request

UN: Available upon request

15. REGULATORY INFORMATION

VOC (Volatile Organic Compounds): None

TSCA (Toxic Substances Control Act): Listed

SARA Title III Section 302 EHS: ND

SARA Title III Section 311/312: ND

SARA Title III Section 313 Toxic Chemicals: None

WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

UNITED 416 COOLING TOWER CONCENTRATE

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