

# MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

PRODUCT NAME: CT-510

MSDS NUMBER: 031902CT510

PRODUCT CODE: COOLING WATER TREATMENT

MSDS DATE: 3/19/02

KEY NUMBER: CT-510

EMERGENCY PHONE #'s: 800-255-3924 (CHEMTEL)



## Advanced Chemical Technology, Inc.

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<b>HEALTH</b>	<b>2</b>	<b>Hazardous</b>
<b>FIRE</b>	<b>0</b>	<b>Will Not Burn</b>
<b>REACTIVITY</b>	<b>0</b>	<b>Stable</b>
<b>SPECIFIC</b>	<b>Corrosive - COR</b>	

### 1. IDENTIFICATION

See Addendum: Ref. PAGE:

**Chemical Name:** CT-510

**Chemical Family:** COOLING WATER TREATMENT

**CAS #:** MIXTURE

**Chemical Formula:** MIXTURE

**CAS Name:** MIXTURE

**Molecular Weight:** MIXTURE

**Synonyms / Common Name:** COOLING WATER TREATMENT

**DOT Information:** CORROSIVE

### 2. PHYSICAL DATA

See Addendum: Ref. PAGE:

**Appearance:** Lt. Yellow Liquid

**Color:** Light Yellow

**State:** Liquid

**Odor Characteristics:** Acrid

**pH:** 11.5

**Viscosity:** ND

**Specific Gravity (Water = 1):** 1.267

**Vapor Density (Air = 1):** >1

**Vapor Pressure:** 23.75

**Melting Point:** NA

**Boiling Point:** > 212 F

**Flash Point:** NA

**Freezing Point:** ND

**Percent Volatility:** ND

**Evaporation Rate (BAc = 1):** 1

**Solubility in Water:** Soluble

**Solubility in Oil:** ND

**Solubility in Acetone:** ND

### 3. INGREDIENTS - HAZARDOUS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Potassium Hydroxide	1310-58-3	Potassium Hydroxide	2 mg/M3	Proprietary
Hydroxyethylidene Disphosphonic Acid (HEDP)	2809-21-4		NE	Proprietary

### 4. FIRE AND EXPLOSION HAZARD DATA

See Addendum: Ref. PAGE:

**Flash Point:** NA

**Flammable Limits in Air % by volume:** Lower NA  
Upper NA

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical for fires in storage areas.

**Special Fire Fighting Procedures:** Keep container cool with water spray. Fire Fighters should wear self-contained breathing apparatus and full protective clothing.

**Unusual Fire & Explosion Hazards:** Dried residue can thermally decompose, giving off irritating and potentially toxic fumes.

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MATERIAL SAFETY DATA SHEET PAGE #: 2 OF 4

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**5. HEALTH HAZARD DATA** See Addendum:

PAGE #:

**Threshold Limit Value:** 2mg/M3 Potassium Hydroxide**Effects of Overexposure:****Inhalation:** May cause irritation of upper respiratory passages.**Skin Contact:** Causes skin irritation. May cause a more serious response if confined to the skin or if the skin is abraded. A single prolonged exposure is not likely to result in harmful quantities being absorbed.**Eye Contact:** Can cause burns to eye and surrounding tissue.**Ingestion:** Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and diarrhea. Not considered toxic.**Delayed Effects:** Prolonged contact may cause burns.**Medical Conditions Aggravated by Exposure** Not Known.**6. FIRST AID MEASURES** See Addendum:

PAGE #:

**Inhalation:** If breathing stops, give artificial respiration. Call a physician immediately.**Skin Contact:** Immediately remove clothing under a safety shower. Flush all affected areas with large amounts of water for at least 15 minutes.**Eye Contact:** Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Obtain medical attention immediately.**Ingestion:** Do not induce vomiting. If conscious, immediately give large quantities of water. Call a physician or the nearest Poison Control Center immediately.**NOTES TO PHYSICIAN:** None.**7. REACTIVITY DATA** See Addendum:

PAGE #:

**Stability:** Stable**Incompatibility:** Strong oxidizers  
(materials to avoid)**Hazardous Combustion or Decomposition Products** Carbon monoxide, carbon dioxide and oxides of nitrogen.**Hazardous Polymerization:** Will not occur.**Conditions to Avoid:** Do not mix with other industrial chemicals.**8. SPILL OR LEAK PROCEDURES** See Addendum:

PAGE #:

**Actions to take for Leaks & Spills** For small spills mop or wipe up. For large spills, contain by diking with soil or other absorbent material. Keep large quantities out of sewers, drains, surface waters, and soil.**Waste Disposal Method:** Dilute acid (preferably acetic acid) may be used to neutralize the final traces immediately after flushing. Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.



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**9. SPECIAL PROTECTION INFORMATION**

See Addendum:

Ref. PAGE:

**Respiratory Protection:** Not normally required, NIOSH approved respirator in the absence of adequate environmental controls at the point of use.

**Eye Protection:** Chemical goggles and face shield.

**Skin Protection:** Rubber gloves.

**Other Clothing:** Rubber apron and protective clothes recommended..

**Other Equipment:** None

**Engineering Controls:** Normal

**10. HANDLING AND STORAGE**

See Addendum:

Ref. PAGE:

**Special Precautions:** Do not get in eyes, on skin, or on clothing. Store material in a cool location.

**Other Precautions:** An eyewash and safety shower should be nearby and ready for use.

**11. REGULATORY INFORMATION**

See Addendum:

Ref. PAGE: 4

**Workplace Classification:** NA

**12. TOXICOLOGICAL INFORMATION**

See Addendum:

Ref. PAGE:

**Acute Data:** NE

**Reproductive /  
Teratology Data** NE

**13. ECOLOGICAL INFORMATION**

See Addendum:

Ref. PAGE:

**Fate in the Environment:** NE

**14. DISPOSAL CONDITIONS**

See Addendum:

Ref. PAGE:

**Procedures:** Dispose of all waste according to Federal, State, and Local regulations.

**15. TRANSPORTATION INFORMATION**

See Addendum:

Ref. PAGE:

**DOT Classification:** Corrosive, UN 1760, PG II (Contains Potassium Hydroxide, Liquid)

**Warning Labels:** CORROSIVE



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**ADDENDUM for Section - 11. REGULATORY INFORMATION - Ref. Pg. 3**

RCRA Status: D002

CERCLA Status: Reportable Quantity for Potassium Hydroxide: 1000 lbs.

SARA/Title III- Section 304 Emergency notification reporting. This product contains a Section 304 listed hazardous substance for emergency release notification.

Section 302 Emergency Planning Notification/Threshold Planning Quantities: No (X) Yes ( )

SARA/Title III- Section 313 Toxic chemical release reporting. This product does not contain a Section 313 listed toxic chemical subject to release reporting requirements.

TSCA Inventory Status- All chemical components are listed on TSCA Inventory.

California Proposition 65 Status- This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

**ADDENDUM for Section - Other Information**

NA = Not Applicable

ND = Not Determined

NE = Not Established

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**ADDENDUM for Section -**