

MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

PRODUCT NAME: CT-500

MSDS NUMBER: 040302CT500

PRODUCT CODE: COOLING WATER TREATMENT

MSDS DATE: 4/3/02

KEY NUMBER: CT-500

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



Advanced Chemical Technology, Inc.

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

HEALTH	3	Extreme Danger
FIRE	0	Will Not Burn
REACTIVITY	2	Violent Chemical Change
SPECIFIC	Corrosive - COR	-

1. IDENTIFICATION

See Addendum: Ref. PAGE:

Chemical Name: CT-500

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: Orange Liquid

Color: Orange

State: Liquid

Odor Characteristics: Odorless

pH: < 1

Viscosity: ND

Specific Gravity (Water = 1): 1.348

Vapor Density (Air = 1): < 1

Vapor Pressure: ND

Melting Point: NA

Boiling Point: > 212 F

Flash Point: NA

Freezing Point: ND

Percent Volatility: ND

Evaporation Rate (BAc = 1): < 1

Solubility in Water: Complete

Solubility in Oil: ND

Solubility in Acetone: ND

3. INGREDIENTS - HAZARDOUS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Sulfuric Acid	7664-93-9		1 mg/M3 for 15 minutes	< 50
Zinc Sulfate	7733-02-0		Not Established	< 5
Hydroxylethane Diphosphonic Acid	2809-21-4		Not Established	< 10

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: Acid will react with active metals to produce flammable hydrogen.

**Advanced Chemical Technology, Inc.**

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

MATERIAL SAFETY DATA SHEET PAGE #: 2 OF 4

PRODUCT NAME: CT-500

MSDS NUMBER: 040302CT500

MSDS DATE: 4/3/02

PRODUCT CODE: COOLING WATER TREATMENT

KEY NUMBER: CT-500

5. HEALTH HAZARD DATA See Addendum:

PAGE #:

Threshold Limit Value: Sulfuric Acid: 1mg/m³ for 15 minutes.
Sodium Tolytriazole: Not established**Effects of Overexposure:****Inhalation:** Mist will cause severe irritation of upper respiratory passages and could even possibly damage the lung tissue proper.**Skin Contact:** Severe Burns. A marked corrosive action on contact with skin.**Eye Contact:** Severe Burns and possible eye damage. A marked corrosive action on contact with eyes.**Ingestion:** Results in severe burning and injury.**Delayed Effects:** No specific information available.**Medical Conditions Aggravated by Exposure** No specific information available.**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. Wash contaminated clothing and shoes before reuse.**Eye Contact:** Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Obtain medical attention immediately.**Ingestion:** If conscious, immediately give small quantities of water for dilution. Do not induce vomiting. Call a physician or the nearest Poison Control Center immediately.**NOTES TO PHYSICIAN:** None.**7. REACTIVITY DATA** See Addendum:

PAGE #:

Stability: Stable**Incompatibility:** Strong caustic, metals, hydroxylamine, ethanol, 2 propanol, organics.
(materials to avoid)**Hazardous Combustion or Decomposition Products** Hydrogen, Oxides of Sulfur.**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 Wear protective clothing, goggles and respirator. For small spills soak up with absorbent. For large spills, contain by diking with soil or other absorbent material. Keep out of sewers, drains, surface waters, and soil.**Waste Disposal Method:** Lime or soda ash 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.



Advanced Chemical Technology, Inc.

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

PRODUCT NAME: CT-500

MSDS NUMBER: 040302CT500

MSDS DATE: 4/3/02

PRODUCT CODE: COOLING WATER TREATMENT

KEY NUMBER: CT-500

9. SPECIAL PROTECTION INFORMATION

See Addendum:

Ref. PAGE:

Respiratory Protection: 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 clothing.

Other Equipment: Eye wash station, Full drench shower.

Engineering Controls: General mechanical ventilation recommended for enclosed area.

10. HANDLING AND STORAGE

See Addendum:

Ref. PAGE:

Special Precautions: Do not get in eyes, on skin, or on clothing.

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

11. REGULATORY INFORMATION

See Addendum:

Ref. PAGE:

Workplace Classification: CERCLA Status: Reportable quantity for Sulfuric Acid and Zinc Sulfate: 1000 lbs.
SARA/TITLE III: Section 304 Threshold Planning Quantity for Sulfuric Acid: 1000 lbs.

12. TOXICOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Acute Data: May cause local irritation from exposure.

Reproductive / Teratology Data No specific information available.

13. ECOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Fate in the Environment: No specific information available.

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, N.O.S., 8
UN 2796 PG II
(Sulfuric Acid, Liquid)

Warning Labels: CORROSIVE



Advanced Chemical Technology, Inc.

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

MATERIAL SAFETY DATA SHEET PAGE #: 4 OF 4

PRODUCT NAME: CT-500

MSDS NUMBER: 040302CT500

MSDS DATE: 4/3/02

PRODUCT CODE: COOLING WATER TREATMENT

KEY NUMBER: CT-500

ADDENDUM for Section - Other Information

NA = Not Applicable
ND = Not Determined
NE = Not Established

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Advanced Chemical Technology makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly, Advanced Chemical Technology will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied or merchantability fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.

ADDENDUM for Section -

ADDENDUM for Section -