

# MATERIAL SAFETY DATA SHEET

CT-560

PRODUCT NAME: CT-560

PAGE NUMBER: 1 of 4

MSDS NUMBER: 020911CT560

PRODUCT CODE: Cooling Water Treatment

EMERGENCY PHONE #S: 800-255-3924 (CHEMTEL)

MSDS DATE: 02/09/2011



**Advanced Chemical Technology, Inc.**  
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**HEALTH**

**1** Slightly Hazardous

**FLAMMABILITY**

**0** Will Not Burn

**REACTIVITY**

**0** Stable

**Personal Protection**

**C**

## 1. IDENTIFICATION

**Chemical Name:** CT-560  
**Chemical Family:** Cooling Water Treatment  
**DOT Information:** Non-Regulated

## 2. PHYSICAL DATA

<b>Appearance:</b> Pale Yellow liquid	<b>Vapor Pressure:</b> 23.75 mm Hg
<b>Odor Characteristics:</b> Bland	<b>Boiling Point:</b> 212 F
<b>pH:</b> 5.5 – 6.0	<b>Freezing Point:</b> NE
<b>Viscosity:</b> NE	<b>Evaporation Rate (Water = 1):</b> 1
<b>Specific Gravity (Water = 1):</b> 1.145	<b>Solubility in Water:</b> Soluble
<b>Vapor Density (Air = 1):</b> 0.62 @ 68 F	

## 3. INGREDIENTS – HAZARDOUS

Components	CAS No.	OSHA PEL	ACGIH TLV	Approx %
Hydroxyethylidene Diphosphonic acid	2809-21-4	NE	NE	< 10
Phosphonobutane Tricarboxylic acid	37971-36-1	NE	NE	< 5
Stannous Chloride	7772-99-8	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	< 4
Sodium Tolytriazole	64665-57-2	NE	NE	< 3
Sodium Xylenesulfonate	1300-72-7	NE	NE	< 2

## 4. FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA  
**Flammable Limits in Air % by volume:** Lower NA Upper NA  
**Extinguishing Media:** Water spray, carbon dioxide, dry chemical, foam  
**Special Fire Fighting Procedures:** Keep containers cool with water spray. Firefighters should wear self-contained breathing apparatus and wear full protective clothing  
**Unusual Fire & Explosion Hazards:** Dried residue can thermally decompose giving off toxic fumes

## 5. HEALTH HAZARD DATA

### Effects of Overexposure:

**Inhalation:** Mist may cause irritation of upper respiratory passages and mucous membranes  
**Skin Contact:** Contact with skin may cause irritation or dermatitis. A single prolonged exposure is unlikely to result in harmful quantities being absorbed  
**Eye Contact:** Irritating to eyes and surrounding tissues  
**Ingestion:** Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and diarrhea. Prolonged or repeated ingestion may affect the liver.  
**Delayed Effects:** None known  
**Medical Conditions Aggravated by Exposure:** None



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## 6. FIRST AID MEASURES

**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:** Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY

**Notes to Physician:** Treat patient symptomatically.

## 7. REACTIVITY DATA

**Stability:** Stable

**Incompatibility:** Strong oxidizers, hydrazine, alkalis

**Hazardous Combustion or Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, fumes of tin

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Do not mix with other industrial chemicals

## 8. SPILL OR LEAK PROCEDURES

**Personal Precautions:** Wear boots, goggles, gloves, respirator, and protective clothing

**Environmental Precautions:** Keep out of sewers, drains, surface waters, and soil

**Method for Cleanup:** For small spills, mop or wipe up. For large spills, contain by diking with soil or other absorbent material

## 9. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** NIOSH approved respirator in the absence of adequate environmental controls at the point of use

**Eye Protection:** Chemical splash goggles or safety glasses with side-shields

**Skin Protection:** Rubber gloves

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

**Other Equipment:** Eye-wash station and safety shower

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits



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## 10. HANDLING AND STORAGE

**Handling Precautions:** Do not get in eyes, on skin, or on clothing.  
**Storage Precautions:** Keep container closed when not in use. Store in a protected area.  
Rinse container before disposal.  
**Other Precautions:** An eyewash and safety shower should be nearby and ready for use.

## 11. REGULATORY INFORMATION

**RCRA Status:** Not regulated

**CERCLA Status:** Not regulated

### SARA/Title III – Section 302 Emergency Planning Notification/Threshold Planning Quantities

This product does not contain a Section 302 substance subject to Emergency Planning Notification/Threshold Planning Quantities

### SARA/Title III – Section 304 Emergency Notification Reporting

This product does not contain a Section 304 listed hazardous substance for emergency release notification

### SARA/Title III – Section 311/312 Hazardous Categories

Acute

### 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

## 12. TOXICOLOGICAL INFORMATION

**Acute Data:** NE

**Reproductive / Teratology Data** NE

## 13. ECOLOGICAL INFORMATION

**Fate in the Environment:** NE

## 14. DISPOSAL CONDITIONS

**Procedures:** Dispose of all waste according to federal, state, and local regulations

## 15. TRANSPORTATION INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation

**US DOT** Non-Regulated



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**16. OTHER INFORMATION**

<b>A. Suggested NFPA Rating:</b>		<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Specific Hazard</u>
		<b>1</b>	<b>0</b>	<b>0</b>	<b>NONE</b>
Health Hazard (Blue)	Fire Hazard (Red)	Reactivity (Yellow)	Specific Hazard (White)		
4- Deadly 3- Extremely Hazardous 2- Hazardous 1- Slightly Hazardous 0- Non Hazardous	Flash Points 4- Below 73 F 3- Below 100F 2- Below 200 F 1- Above 200 F 0- Will Not Burn	4- May detonate 3- Shock & heat may detonate 2- Violent chemical change 1- Unstable if heated 0- Stable	OX Oxidizer ACID Acid ALK Alkali COR Corrosive		

<b>B. Suggested HMIS Rating:</b>		<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Protective Equipment Guide</u>
		<b>1</b>	<b>0</b>	<b>0</b>	<b>C</b>
Health Hazard (Blue)	Fire Hazard (Red)	Reactivity (Yellow)	Protective Equipment Guide (White)		
4- Extreme: Highly Toxic. May be fatal on short term exposure. Protective equipment required.	4- Extreme: Extremely flammable gas or liquid. Flash Point below 73 F.	4- Extreme: Explosive at room temperature.	A- Safety glasses B- Safety glasses, gloves C- Safety glasses, gloves, protective apron		
3- Serious: Toxic. Avoid inhalation or skin contact.	3- Serious: Flammable. Flash point 73 F to 100 F.	3- Serious: May explode if shocked, heated under confinement or mixed with water.	D- Face shield, gloves, protective apron E- Safety glasses, gloves, dust mask		
2- Moderate: Moderately toxic. May be harmful if inhaled or absorbed.	2- Moderate: Combustible. Requires moderate heating to ignite. Flash Point 100F to 200F.	2- Moderate: Unstable, may react with water.	F- Safety glasses, gloves, protective apron, dust mask G- Safety glasses, gloves, vapor respirator		
1- Slight: Slightly toxic. May cause slight irritation.	1- Slight: Slightly combustible. Requires strong heating to ignite.	1- Slight: May react if heated or mixed with water.	H- Splash goggles, gloves, protective apron, vapor respirator I- Safety glasses, gloves, dust and vapor respirator		
0- Minimal: All chemicals have some degree of toxicity.	0- Minimal: Will not burn under normal conditions.	0- Normally stable: Does not react with water.	J- Splash goggles, gloves, protective apron, dust and vapor respirator K- Airline respirator, gloves, protective suit, boots X- Ask your supervisor for special handling instructions		

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

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