MATERIAL SAFETY DATA SHEET

CT-556

PRODUCT NAME: CT-556 PAGE NUMBER: 1 OF 4

MSDS NUMBER: 081012CT556 PRODUCT CODE: Cooling Water Treatment

EMERGENCY PHONE #'S: 800-255-3924 (CHEMTEL) **MSDS DATE**: 08/10/2012

GACT

Advanced Chemical Technology, Inc.

8728 Utica Avenue, Rancho Cucamonga, CA 91730 USA Phone (800) 527-9607 / Fax (909) 980-9366 Web: http://www.actglobal.net Email: act@actglobal.net

HEALTH	1 Slightly Hazardous
FLAMMABILITY	0 Will Not Burn
REACTIVITY	0 Stable
Personal Protection	С

Vapor Pressure:

23.756 mm Hg

1. IDENTIFICATION

Chemical Name: CT-556

Chemical Family: Cooling Water Treatment

DOT Information: Non-Regulated

2. PHYSICAL DATA

Appearance: Dark Brown Liquid

Odor Characteristics: Bland

Boiling Point: >212 F

pH: 2.4 Freezing Point: ND

Viscosity: ND

Evaporation Rate (Water = 1): 1

Specific Gravity (Water = 1): 1.124 Solubility in Water: Soluble

Vapor Density (Air = 1): 0.62 @ 68 F

3. INGREDIENTS - HAZARDOUS

	Components	CAS No.	OSHA PEL	ACGIH TLV	Approx %			
	Phosphonobutane – tricarboxylic acid	37971-36-1	NE	NE	4			
	Hydroxyethylidene diphosphonic acid	2809-21-4	NE	NE	5			
	Benzotriazole	95-14-7	NE	NE	<5			
	Sodium molybdate	7631-95-0	5 mg/m ³	5 mg/m ³	<2			

4. FIRE AND EXPLOSION HAZARD DATA

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

5. HEALTH HAZARD DATA

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 unlikely to result in harmful quantities

being absorbed

Eye Contact: Can cause irritation to eye and surrounding tissue

Ingestion: Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and

diarrhea.

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.

None

Notes to Physician:

7. REACTIVITY DATA

Stability: Stable

Incompatibility: Strong oxidizers, halogen compounds

Hazardous Combustion or

Carbon monoxide, carbon dioxide, ammonia, and oxides of nitrogen

Decomposition Products:

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, 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

Eye Protection: Chemical goggles and face shield

Skin Protection: Rubber gloves

Other Clothing: None

Other Equipment: Eye wash station and safety shower

Engineering Controls: Normal



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> 08/10/2012 MSDS DATE:

PRODUCT CODE: Cooling Water Treatment

10. HANDLING AND STORAGE

Special Precautions: Keep from freezing. Rinse container before disposal

11. REGULATORY INFORMATION

RCRA Status: Not Regulated **CERCLA Status:** Not Applicable

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 contains a Section 304 listed hazardous substance for emergency release notification

SARA/Title III - Section 311/312 Hazardous Categories

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 know carcinogens and/or reproductive toxins

12. TOXICOLOGICAL INFORMATION

Acute Data:

Reproductive / Teratology Data

13. ECOLOGICAL INFORMATION

Fate in the Environment: Ingredients will slowly degrade in the presence of sunlight and oxygen

14. DISPOSAL CONDITIONS

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

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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			<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>		Specific Hazard
Suggested NFPA Rating: Health Hazard (Blue)		1 Fire Hazard (Red)		0 Reactivity (Yellow)			None
						Specific Hazard (White)	
4- 3- 2- 1- 0-	Deadly Extremely Hazardous Hazardous Slightly Hazardous Non Hazardous	4- 3- 2- 1- 0-	Flash Points Below 73 F Below 100F Below 200 F Above 200 F Will Not Burn	4- 3- 2- 1- 0-	May detonate Shock & heat may deton Violent chemical change Unstable if heated Stable	ate	OX Oxidizer ACID Acid ALK Alkali COR Corrosive
			<u>Health</u> <u>Fire</u>		<u>Reactivity</u>		Protective Equipment Guide
igges	sted HMIS Rating:		1	0	0		С
	Health Hazard (Blue)		Fire Hazard (Red)		Reactivity (Yellow)	ı	Protective Equipment Guide (White)
4-	Extreme: Highly Toxic. May be fatal	4-	Extreme: Extremely flammable gas or	4-	Extreme: Explosive at	A-	Safety glasses
	on short term		liquid. Flash Point		room temperature.	B-	Safety glasses, gloves
	exposure. Protective equipment required.		below 73 F.			C-	Safety glasses, gloves, protect apron
3-	Avoid inhalation or	Serious: Flammable. Flash point 73 F to 100 F.	3-	Serious: May explode if shocked, heated under confinement or mixed	D-	Face shield, gloves, protective apron	
	SKIII COITIACI.		1001.	with water.		E-	Safety glasses, gloves, dust mask
2-	Moderate: Moderately toxic. May be harmful if	2-	Moderate: Combustible. Requires moderate	2- Moderate: Unstable, may react with water.	F-	Safety glasses, gloves, protect apron, dust mask	
		heating to ignite. Flash Point 100F to 200F.			G-	Safety glasses, gloves, vapor respirator	
1-	Slight: Slightly toxic. May cause slight irritation.	1-	Slight: Slightly combustible. Requires strong	1-	Slight: May react if heated or mixed with water.	H-	Splash goggles, gloves, protective apron, vapor respira
	iiilalioii.	heating to ignite.		vvalGI.	l-	Safety glasses, gloves, dust a 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 vap 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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